

THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE IQAC

Name of the Institution : **ARMED FORCES MEDICAL COLLEGE, PUNE**
Year of report : **2010-2011**

Part A

What is the plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and what is the outcome by the end of the year?

1. Monitoring the progress on introduction of new courses

- (a) There has been an increase of 60 seats in MD / MS / Superspeciality courses for PG training, the details of which have been elucidated in succeeding paragraphs.
- (b) 11 Bachelor of Paramedical Training (BPMT) courses have been started this year, the details of which have been elucidated in succeeding paragraphs.
- (c) The newly introduced courses of MD Blood Transfusion and Immunohematology are being conducted with appreciable success and competence.
- (d) The College is conceptualizing the need and process for introducing Post-graduate Diploma courses in Emergency Medicine as well as Combat Medicine.
- (e) Government sanction has been accorded for starting MSc Nursing in the subjects of Medical and Surgical Nursing, Pediatric Nursing, Community Health Nursing and Obstetrics & Gynecology Nursing and 08 candidates have joined the course.

2. Revision of the existing para-medical courses

- (a) Paramedical courses being conducted by the institution have been reviewed and proposals for restructuring them to meet the service requirements have been completed.
- (b) Formal recognition has been received from the Maharashtra University of Health Sciences for including 11 Bachelor of Paramedical Training (BPMT) courses, details of which have been mentioned in succeeding paragraphs.
- (c) **Post-graduation Course for paramedics.** The College has taken a step towards empowerment of Personnel below Officers' Rank (PBOR) by starting the Post Graduate Diploma in Medical Laboratory Technology (PGDMLT) (Post B.Sc) course under aegis of MUHS, Nashik for one year

duration since 2007. The College has been accorded approval to train 30 candidates per year. 10 candidates have been enrolled for the course in 2010.

(d) **Training in computers.** 03 staff and 20 paramedical trainees were given computer training through CDAC by Department of Informatics of Hospital Administration in the academic year 2009-10.

(e) **Speech Therapy & Hearing Aid Course.** Two courses were conducted this year to train class – I Nursing Assistants (NAs) / Operating Room Assistants (ORAs) in subject course.

3. Review of Academic Curriculum

(a) Though a formal curriculum committee was not established due to administrative reasons, individual departments have carried out periodic review of the curriculum, the outcome of which have been reported to the Academic Committee for further deliberations.

(b) Academic Committee meetings have been held quarterly and the committee deliberated on the conduct and revision of curriculum within permissible flexibility and approved changes in teaching methodology, examination reforms, performance and feedback evaluation. These have been elucidated in subsequent paragraphs.

4. Improvements in teaching methodology

(a) Many of the departments have introduced new teaching modules to the existing courses. There has also been a significant increase in the number of inter-disciplinary modules in the form of integrated training sessions.

(b) With **'smart'** class rooms becoming a reality, most of the departments have made sincere efforts to improve the **digital content** of their teaching modules through interactive class room models. Appropriate to the feedback received from students, the faculty follows a judicious mixture of conventional methods and newer teaching methodology for teaching and learning process.

(c) The departments have invested time and efforts in improving the skills of students in professional **communication skills**, especially soft skills and more departments have included student symposia and seminars as a part of their curriculum. UG students are encouraged to actively participate in these activities and also take part in conferences and CME programmes.

(d) The College has recognized the need to focus on the practice of **'Evidence Based Medicine'** and several faculty members have received training on the subject through the teacher's training course that the College conducts regularly. More and more departments are now taking the philosophy of EBM to the students through journal clubs.

(e) A paramedical lecture hall has been made operational with full audio-visual aids, for the conduction of paramedical courses.

(f) Complete **Patient Simulator System** with computerized mannequins to simulate critical emergencies has been established in the Department of Anesthesia and Critical care and is being extensively used for simulated

training of residents and specialists for effective management of critically ill patients.

(g) '**Clinical Signs Lab**' has been established in the Department of Internal Medicine and students are utilizing the same for upgrading their clinical skills. Requisite DVDs and audio-visual system have been procured for the laboratory. Weekly demonstration of physical signs is being done in the e-clinical skills laboratory for improved appreciation and internalization of clinical medicine.

(h) The Non invasive training laboratory is fully functional at MH(CTC). Equipments related to Cardiology (TMT machine, Holter monitor, Echocardiography), Polysomnography and Automated Urine analysis instruments have been procured. This gives a complete range of investigations for cardiac and respiratory diseases and will form a nidus for future training of PG residents.

(i) An Electronic Stethoscope has been procured for teaching better appreciation of auscultatory findings to undergraduate students.

(j) New manikins have been procured by most departments for better hands on training of the UG students. This training methodology has been well appreciated by students and has made teaching more effective, making training by simulation a value-added training methodology for its safe practice environment, control of the training environment, over-learning of intricate procedures and integration of resources management skills in team settings.

(k) The department of Hospital Administration has entered into Faculty and Student Exchange programmes with reputed institutions like NIIHW and AIIMS, Delhi, which has further enriched training of PG students of the department by enriching the training content.

(l) There has also been an effort for horizontal and vertical integration of teaching of UGs in I, II and III MBBS subjects with increased participation of students in workshops and seminars and development of **Skills Lab** in the Department of Medicine and Surgery.

5. Improvements in Learning Resources

(a) Central Library

(i) A new central library has been inaugurated in a brand new modern building. This Armed Forces Medical College library is designated as "**Library Category – III**" vide DGAFMS/DG-2D letter No 3019/DGAFMS/DG-2B/1528/D (Med) dated 23 May 2001.

(ii) The main library services act as referral centre for more than 1500 users (UG & PG Students and faculty members of AFMC) and other medical establishments in the Pune complex. It has a dedicated computer room, separate rooms for UG and PG students and an exclusive room for latest journals.

(iii) There has been a significant increase in the number of books procured and journal being subscribed. **877** new books and **171** new

journals were subscribed for the year 2010-11. The total number of bound journals is 194491 and the books are 15168. In addition the total number of books in graduate wing is 2563.

(iv) The books and journals in the library have been indexed on the '**SLIM21 & LIBRA software**' for easy retrieval. The same can be accessed by all departments by accessing <http://mainlibrary-pc/w27>.

(v) With broadband access having been made available to all the academic departments, central library has facilitated online access of journals by the departments.

(vi) The college library has website www.apsaonline.net with subscription to 2000 full text online journals including various journals on www.nlm.nih.gov/pubmed and medline with a web server, 6 workstations and online access to all the departments of the college.

(vii) One floor of the Central library has been kept for the UG students as a reading room. Colourful designed cubicles have been made for students to engage in their studies in a peaceful, enabling environment.

(viii) Similarly for the e-library, 30 new computers, each within a separate cubicle each have been placed for the students, where they can work and access a wide selection of journals.

(ix) Continuous control and monitoring of teaching of UG students is being exercised by '**Smart Monitoring Technology**' by the Commandant and Dean of the College. At the same time, continuous guidance, advice and counseling of teaching faculty is resulting in '**Continuous Quality Improvement**' of teaching methodology of the college.

(b) **Departmental Libraries**

(i) There has been a significant increase in the number of professional books added on to the departmental libraries by respective departments, which has been facilitated by increased allocations from instructional and training grants.

(ii) Most departments have created or upgraded their digital library of multimedia resources for access by the students.

(iii) Library of College of Nursing has also been upgraded with foldable desks, lighting for reading and wall mounted cabinets for storage of books and journals. The total number of books in this library has increased to 2757 and journals to 5127.

(c) **Institutional publications**

Significant efforts have been made by various departments to publish textbooks, manuals, monographs, handbooks and other publications. The list of publications of the college is on the increase and **Appendix 'A'** lists the important publications of the college.

(d) **Website**

- (i) The official college website has been updated and new information added. The site offers all information and details of the college. The web address is **www.afmc.nic.in**
- (ii) AFMC website was launched in the year 2006 and is constantly being upgraded from time to time. This year AFMC entrance test applications were also available on the website, which could be downloaded and submitted along with the demand draft, instead of buying the application and prospectus from post offices. A more interactive and informative website is under planning and will be available for sharing of information with the environment shortly.

(e) **Internet access**

- (i) The College has implemented & upgraded the existing internet services with broadband access to 4 MBPS Internet Lease Line provided by BSNL.
- (ii) Internet is now available in every department of the college and is operational throughout the day.
- (iii) In addition, log-in ID and password have been issued to every department and faculty which has led to significant improvement in the quality of the teaching and learning process with free access to the knowledge bank being held with the World Wide Web.

(f) **Medical Journal Armed Forces India**

- (i) The layout and content of MJAFI has been recently improved. The editorial policy regarding peer review and evaluation policy has been revamped and made stringent in order to improve the quality of content. All efforts are on for getting the journal indexed.
- (ii) The medical journal is now available on Elsevier Health Advance platform and will shortly be available on ScienceDirect and PubMed Central, which will give the journal a truly global presence and appeal. At present the journal is indexed with NIC Net Work (IndMED) and full text of the journal is available on NIC web site. Authors can now register for free and submit their manuscripts for publication to MJAFI using Elsevier's online manuscript management system at <http://ees.elsevier.com/mjafi>. Six articles have already been submitted online since its availability w.e.f. 30th April 2011. The new website (<http://www.mjafi.net>) is under construction and likely to be fully functional within a month. Ten years archives will also be available on the new website. An official launch of the manuscript management system will be planned on completion of the new website. .

(g) **Departmental Newsletters / College Magazine**

- (i) The college publishes a quarterly newsletter “**AFMANAC**”, highlighting the various events in the college. The layout and contents of the newsletter have been improved. Some departments have introduced the concept of newsletters as a medium to reach out to other specialists in the Armed Forces. The feedback suggests that they are a meaningful vehicle of professional communication.
- (ii) Undergraduate students edit and publish a college magazine titled “**Dhanvantari**”, which show cases the professional and literary talents of our students. The 46th edition was published with improved quality and content in the year 2010.
- (iii) Other newsletters are:
- (aa) “**HEAR SAY**”, newsletter published quarterly by the Department of ENT.
- (ab) “**Scalpel**” – published by Department of Surgery
- (ac) “**Stimulus**” – published by the Students Scientific Committee.
- (iv) All the above publications have made impressive changes in the layout and content during 2010-11.

6. **Assessment / Evaluation**

- (a) More departments have introduced Objective Structured Practical Examination (OSPE) & Objective Structured Clinical Examination (OSCE) as the preferred mode of formative evaluation for undergraduates. However, as the traditional mode of evaluation is still in vogue for the undergraduate university examinations held by Maharashtra University of Health Sciences, this cannot be implemented as the sole means of evaluation.
- (b) One of the important parameters to measure academic performance are the examination results. The college has consistently achieved better pass percentage as compared to other medical colleges under the university in all university examinations.
- (c) The Medical Education has achieved significant improvement in the curriculum of the ‘**Teacher’s Training Programme**’, where all faculty members are being extensively trained in scientific evaluation methods.

7. **Value Education through Community Work**

- (a) The college supports several community related healthcare projects through various outreach programmes. Multiple health camps have been conducted at rural / semi-urban locations in Pune district in collaboration with various NGOs, giving an opportunity to the students to relate to the healthcare needs and problems of the community.
- (b) The college promotes Project “**Sadbhavna**”, a community health and development project taken up by Department of Community Medicine, with

the objective of adopting a village – “**Kasurdi**” (Taluka - Daund, Dist - Pune) and providing them promotive, preventive and curative healthcare services. This has been developed as a model health centre with the college providing complete medical cover including specialist OPD facilities. Patients of this village needing advanced medical care are being referred to the Command Hospital (SC) for further management. The UG and PG students of the college are very actively involved in this initiative.

(c) A social service group of undergraduate students, “**Prayas**”, also gives a platform for the students to get involved with community and offers solutions to their healthcare and other related problems in the community. It gives a sense of social commitment. The club carries out the following activities:

- (i) Conducts door-to-door campaign in Pune Cantt to prime the population to participate in the National Pulse Polio programme.
- (ii) Collect donation and provides voluntary service for certain orphanages and an Old Age Home at Pune.
- (iii) Helping in Palliative care for cancer patients admitted at MDTC, Command Hospital (SC) with help of NGOs.
- (iv) Organizes Blood donation camps.

(d) The college continues to lend professional help to civil authorities during the times of need in and around Pune. The commendable work done by the service doctors and paramedical professionals in this area has been lauded by the public and the press.

(e) **Rural Health Training Centre (RHTC)** Kasurdi is the field practice area for UG & PG students in Community medicine. The centre not only brings medical students and practitioners close to the community, but also provides opportunities for hands-on-training. The students while imparting IEC learn the art of communication and by means of surveys, understand the nuances of scientific research.

(f) The efforts have brought out a significant impact on health status and health seeking behavior of residents of Kasurdi & nearby villages. IEC activities, guided by the results of health surveys carried out in the community has helped in increasing health awareness in the community.

(g) **Urban Health Training Centre (UHTC)** located at Wanowrie bazaar is the urban field practice area of the Department of Community Medicine. The civilian population in this area is provided healthcare services through Mobile Health care van and those requiring hospital services are referred to Command Hosp (SC). The students are trained to get involved with family health – an essential requirement for a family doctor.

(h) Community services are also provided by College of Nursing. They provide healthcare services, health surveys and health camps in the Urban Community Centre at Sholapur bazaar, Ramtekdi and Tadiwala Road. They also provide services in the Rural Community Health centre at Phursungi and Kasurdi village, thus bringing the nursing cadets closer to the real healthcare needs of the Indian common-man.

8. **Reforms in Admission Procedure**

- (a) The admission cell is now air-conditioned with all modern facilities. 78921 candidates appeared for the AFMC Entrance Examination in the year 2010. Based on merit, 130 Indian Medical Cadets were admitted in W-2 (2010) batch. In addition 04 foreign students sponsored by Govt. of India also joined in the same course.
- (b) The application form for AFMC entrance examination is available online and Admit Cards are made downloadable on line.
- (c) All information pertaining to the entrance examination is regularly updated on the web site for benefit of general public and efforts for conducting online admission test is being undertaken.
- (d) An electric car for use by the parents during admission process for free movement inside the campus has been provided which was much appreciated.

9. **Student Welfare**

- (a) New Central Cadets Mess has been made operational with a breath taking ambience, new lawns and entire set of new furniture.
- (b) All cadets have been trained to follow '**Mess Etiquettes**' inside the mess in consonance with the prevalent practices of the Indian Armed Forces.
- (c) Science Digest Board with news paper cuttings has been put up within the lecture hall complex to update students on medical science related developments and recent advances taking place all over the world. Students of scientific society maintain the digest.
- (d) Workshop on short film making skills, photography and glass painting are being carried out regularly.
- (e) Horse riding classes are being conducted for cadets.
- (f) Purchase of new Guitar and other musical instruments have been completed for the Musicmatics society.
- (g) A new gymnasium has been established in the Boys hostel complex.
- (h) A Gymnasium and Basketball court has been established in the girl's hostel.
- (i) 6 large coolers have been established in the Cadets mess.
- (j) Planning for an indoor sports complex cum central examination hall for the students is also under progress.

10. **Research & Consultancy**

- (a) The college continues to offer consultancy in various health and medical education fields. Its advisory role to the Armed Forces Medical Services continues. On a non-monetary basis, the college has been advising various NGOs and other governmental agencies in matters relating to healthcare and medical education.

(b) Undergraduate participation in research projects has received special attention. It has been encouraging to see medical cadets to take up research projects. 21 undergraduate students were awarded short term student ICMR research scholarships and 05 undergraduate students were awarded MUHS, STS research projects during 2010.

(c) Fellowship programme has been started in 2011. There are four such UG Fellowship programs with bilateral association with the Institute of Bioinformatics, Bangalore.

11. Hospital Services

(a) The College has added a large number of sophisticated equipments to its inventory, which has helped in improving the quality of care. The major acquisitions are mentioned in subsequent heads and departmental heads.

(b) The Interventional Radiology Center is fully functional and is adding significant value to the patient care process of affiliated hospitals of the college.

(c) The Civil OPD complex attached to AFMC in Command hospital has been renovated with new tiling, electricity, paint and adequate waiting areas with separate entrances for speciality OPDs. The entire complex has also been decongested with provision of separate space for registration, Central Blood Collection, Blood Report collection centre and Dispensary to accommodate the increasing load of civil patients and to provide them with the latest medical facilities.

(d) A new ENT complex have come up with latest infrastructure and facilities in the OPD complex and the Ophthalmology complex have been renovated.

(e) A new Dermatology Centre has been constructed and is functioning inside the AFMC complex with latest therapeutic services, including dermatosurgery.

(f) Seven students of the 4th year BSc Nursing have created a '**Visual Playful Environment**' in the Pediatrics ward of Command Hospital (SC) by painting of various cartoon characters and aquatic animals, thus providing recreational and diversionary therapy to the sick children admitted in that ward.

12. Support Services

(a) Central cadet mess, New Diamond Jubilee Block, New Dermatology Department, New Central UG and PG library are important additions in the year 2010.

(b) 100% power backup to the whole college with generators has been implemented and the entire college is now on standby power back up.

(c) Widening and naming of the various roads after military dignitaries for easy referral has been implemented.

- (d) There is provision of sophisticated audiovisual aids in lecture halls with interactive boards, LCD projectors and matching computers.
- (e) A CCTV system has been installed in the examination halls with connection provided to the Dean and Commandant of this college to keep a constant vigil on the candidates and students during examination and teaching activities.
- (f) Work on the Central Cadet mess has been completed and the mess has been commissioned for the students to dine in together with the female cadets.
- (g) The structural work of new building of the Diamond Jubilee Block has been completed and the Departments of Pathology, Biochemistry and Microbiology will now be shifted to this new block.
- (h) New Central Medical Stores with more spacious and air-conditioned storage capacity is nearing completion.
- (i) Construction of the Central library has already been completed and made operational with latest books, computers and technology for convenience of students.
- (j) Additional rest room facilities and renovation of existing rest rooms for parents and students has been approved and is being implemented in a phased manner.
- (k) The hall housing the old library have been converted to '**Sanjeevani Hall**' for conduction of various meetings, conferences, AFMRC projects as well as teaching capsules of the Department of Medical Education.

13. Monitoring mechanisms and procedures in place to ensure continuous quality improvement in the functioning of the institution.

- (a) Regular meetings concerning improvement of various aspects of academics, patient care, research, infrastructure, organization and administration are held throughout the year under review. The important meetings held in this regard are:
 - (i) **Armed Forces Medical Research Committee** meeting held in Feb – Mar 2010 & 2011, which deliberated on more than 250 research proposals.
 - (ii) **Armed Forces Medical Advisory Committee** held on Feb – Mar 2010 & 2011 to comprehensively deliberate on various policy changes to further improve undergraduate, postgraduate, nursing, paramedical and parodontal training.
 - (iii) **Commandant's Academic Body** meeting was held quarterly and deliberated on measures to improve hospital services and training facilities.
 - (iv) **Dean's Academic Committee** meetings were held quarterly and deliberated on conduct and revision of curriculum, changes in teaching methodology, examination reforms, performance and feedback evaluation.

- (v) **Commandant's Administration and coordination** meetings were held monthly to review the progress of various coordination issues of the institution.
- (vi) **Dean's Welfare** meetings to deliberate on the welfare points submitted by the students were held quarterly. This highly interactive meeting with student representatives deliberated on genuine requirements of the students for their academic, co and extracurricular activities.
- (vii) **Institutional Ethical Committee** meetings were held quarterly and as on required basis for ethical clearance of all research projects being undertaken by the College.
- (viii) **Departmental IQAC** meetings were held quarterly by the various teaching and support services departments and consolidated progress report was submitted to Institutional QAC. IQAC meeting was held twice in the year to evaluate the progress made in various quality improvement initiatives. All communications received from NAAC was communicated to all the departments and students for information and compliance as and when required.
- (ix) Annual meetings of **Academic Awards Committee** and **Sports Awards Committee** were held to reward proficiency in academics, sports and other extracurricular / co-curricular activities among students.
- (x) Monthly **Microteaching** sessions were held under the department of Medical Education to evaluate and advise faculty on their teaching competence. Many departments also held microteaching sessions in their respective departments.
- (xi) Monthly **Post Graduate Teaching Screening Committee** meetings were held to evaluate and recommend new faculty for post graduate teacher ship.
- (xii) **Guest Lectures** by eminent professionals from the health care environment were regularly conducted to keep the faculty and students updated in various clinical fields, particularly in respect of recent advances in such clinical disciplines.
- (xiii) Faculty lectures have been organized by the Department of Hospital Administration to sensitize the entire faculty of the College in various concepts and tools related to Quality Management.

14. Improvement in overall environment

- (a) Considerable effort has been made towards restoration of Heritage Buildings inside the Campus.
- (b) Improving the sign posting in the Boys Hostel and ambience in each hostel Block has been completed.
- (c) Provisioning of implements for grass cutting and improving the landscaping with tree plantation drive is a regular and ongoing process in the

college. A new beautification project has also been started for selected areas of the college to improve the aesthetics and ambience of the institution.

- (d) There is also a plan for setting up of a printing press in the campus.
- (e) The College campus has been declared as a “**NO SMOKING**” zone with strict enforcements.
- (f) Electric vehicles used for movement of patients and materials within the campus as and when possible have been implemented to reduce carbon emission.
- (g) Use of two wheelers within the campus is already banned and provision of bicycles for medical cadets is in practice. Car pools are actively encouraged for the faculty with the ultimate aim to converting the College campus to a “**Green Environment**”.

15. National Rankings

- (a) The AFMC has been ranked 2nd best Medical College in the country for the year, by the Outlook magazine.
- (b) AFMC is proud to be the NAAC accredited Medical College with the highest CGIA score of 3.51 out of 4 for any medical college in the country.

16. University awards at Graduate Level

- (a) Medical Cadet Capt Gurpreet Kaur won gold medal in PSM and merit certificate for standing fourth in IIIrd MBBS Part I.
- (b) Medical Cadet Capt Sonal Singh won merit certificate for securing 3rd ranking in IIIrd MBBS Part I.
- (c) Medical Cadet Surg Lt. Gursevak Singh won merit certificate for securing 4th rank in IIIrd MBBS Part I.
- (d) Medical Cadet Shikha Awasthi won gold medal and merit certificates in Ophthalmology.

17. Other achievements

- (a) Central Cadet Mess became functional for all Medical Cadets to dine together.
- (b) Overall aesthetics and ambience of the college have been considerably improved.
- (c) The importance on gender equality in profession with equal opportunities to all the students and faculty are in place.
- (d) The college facility for physically disabled with necessary changes in infrastructure and transport is in place. A free transport plies regularly within the campus for the benefit of patients attending various diagnostic facilities inside the college.
- (e) 14 faculty members of the College have been decorated by the Government of India for their extra-ordinary contributions towards the teaching and training functions of the College.

Part B

1. Activities reflecting the goals and objectives of the institution.

(a) The mission of Armed Forces Medical College continues to be provision of comprehensive training to medical cadets to become good and upright citizens, efficient doctors and effective military officers in the Armed Forces Medical Services.

(b) The college conducts graduation course i.e., MBBS and various PG degree & diploma courses recognized by MCI under the aegis of MUHS, Nashik for the students, both civil and service candidates by adopting innovative teaching strategies and setting the highest standards of medical training and research.

(c) The overall improvement in academic environment could be achieved because of the improvement in two-way learning-oriented communication, integrated training modules, participation in medical education training programmes and focus on quality teaching. The overall pass percentage in the two university examinations of the year 2010 are as follows:

	<u>Jun 2010</u>	<u>Dec 2010</u>
I MBBS	96.32%	75%
II MBBS	100%	99%
III MBBS (I)	90%	100%
III MBBS (II)	92%	99%

(d) The pass percentage of the examination held in May / Jun 2010 for PG courses is as under:

(i) Superspeciality	-	100%
(ii) MDS	-	100%
(iii) MD / MS / Diploma	-	95.23%

(e) This year again, a large number of distinctions were scored (a total of 182 in all) which puts the College amongst the top scorers in the University with Pathology, Microbiology, PSM, ENT, Ophthalmology, Medicine, Obstetrics and Gynecology and Pediatrics claiming a larger share of such distinctions.

(f) Sustained efforts at upgrading of equipment inventory and introduction of new facilities has resulted in continued modernization of all clinical, pre and para clinical departments, the details of which are appended in '**Appendix B**'.

(g) The College of Nursing also held examination for Basic BSc Nursing, Post Basic BSc Nursing and MSc Nursing and the pass percentage was 99% in aggregate.

(h) Trainee courses for bachelors degree for Paramedical technician (BPMT) recognized by MCI under the aegis of MUHS, Nashik were also conducted for paramedical personnel of the Armed Forces Medical Services.

(i) Service medical officers are also being imparted Junior Command Course regularly, with the course having been re-structured along “**Problem-solving curriculum**” direction.

(j) Nursing officers are also imparted upgradation courses in various departments of the college.

(k) Efforts at promoting interest and involvement of students in research activities have resulted in the regular allotment of studentship by ICMR. Cadets also participated in a large number of Conferences, Updates, Continued Medical Education programmes and Medical Essay Competitions which provide them a good opportunity to participate in research activities at undergraduate stage.

(l) There has also been renewed emphasis on improving the quality of the research being carried out by faculty members through institutional reforms. There has been a conscious effort to increase the number of publications by the faculty members and improve the citation index by publishing in Indexed national and international journals.

(m) The institution encourages healthy extracurricular activities like sports, adventure activities, social science and hobbies. Details in this regard are attached as ‘**Appendix C**’.

2. New academic programmes initiated at Undergraduate / Post graduate level

(a) There has been an increase of 60 seats in MD / MS / Superspeciality courses as under:

(i) MD Anesthesia	:	from 9 - 15
(ii) MD Biochemistry	:	from 1 - 2
(iii) MD Dermatology	:	from 3 - 4
(iv) MD General Medicine	:	from 16 - 22
(v) MD Hospital Administration	:	from 4 - 8
(vi) MD Microbiology	:	from 4 - 9
(vii) MD Pediatrics	:	from 5 - 8
(viii) MD Pathology	:	from 8 - 10
(ix) MD Pharmacology	:	from 1 - 2
(x) MD Physiology	:	from 2 - 4
(xi) MD Psychiatry	:	from 3 - 5
(xii) MD Radio diagnosis	:	from 3 - 7
(xiii) MD PSM	:	from 11 - 12
(xiv) MD Pulmonary Medicine	:	from 3 - 4
(xv) MD Anatomy	:	from 1 - 4
(xvi) MS Ophthalmology	:	from 5 - 8
(xvii) MS ENT	:	from 4 - 6
(xviii) MS General Surgery	:	from 16 - 21

(xix) MS Orthopedics	:	from 1 - 3
(xx) MCh CT Surgery	:	from 1 - 3
(xxi) MCh Neurosurgery	:	from 1 - 3
(xxii) MCh Plastic surgery	:	from 1 – 3

(b) Internship phase of 6 weeks for IV year BSc Nursing cadets as per the revised MUHS syllabus has been started in the College of Nursing.

(c) The College of Nursing has also started Holistic health care centre experience at Bibewadi for MSc Nursing as alternative modality of treatment, where hands on skill in reflexology is being given.

(d) 11 Bachelor of Paramedical Training (BPMT) courses with the following seat capacity have been affiliated with the MUHS, Nashik and first batch of two courses of radiography and laboratory technicians have been started this year:

(i) BPMT (Radiographic Technician)	-	15
(ii) BPMT (Cardiology Technician)	-	05
(iii) BPMT (Neurology Technician)	-	05
(iv) BPMT (Optometry Technician)	-	05
(v) BPMT (Perfusionist Technician)	-	05
(vi) BPMT (Operation Theatre Technician)	-	10
(vii) BPMT (Endoscopy Technician)	-	05
(viii) BPMT (Laboratory Technician)	-	30
(ix) BPMT (Radiotherapy Technician)	-	05
(x) BPMT (Blood Transfusion Technician)	-	05
(xi) BPMT (Community Medicine / Health Inspector / Emergency Medical Services)	-	05

(b) Teacher student ratio has been improved and optimum use of state of the art audio-visual teaching aids and live cases are being used to impart a practical orientation to training at undergraduate level.

(c) Implementation of an ongoing quality improvement programme in AFMC is stressed to all faculty and students by regular updates in Quality improvement initiatives.

(d) Undergraduates have been given outreach experience in various medical camps organized by departments of the college from time to time.

(e) Army Trauma and Life Support & Resuscitation course started by Dept of Anesthesia and Critical Care in 2006 is now mandatory for all refresher courses conducted by the college for medical officers. This course is also mandatory course before the UG students begin their internship and is a part of the Basic Medical Sciences course at the beginning of PG training.

(f) Proposal for PG degree in Emergency medicine and PG diploma in Military Medicine have been prepared and will be processed to the higher authorities for approval, recognition and implementation.

(g) MSc Nursing has been introduced in College of nursing for 2 year duration in 2009 with present design capacity of 08 students. The course is INC approved and affiliated to MUHS.

(h) Post Basic Diploma in Orthopedic nursing and rehabilitation for 1 year duration has been started in College of Nursing with affiliation to MUHS and approved by INC. The present capacity is 20 students per batch.

(i) Post Basic Diploma in Operation room technique for 1 year duration has also been introduced with 20 students capacity and affiliated to MUHS.

3. Innovation in curricular design and transaction

Various departments have contributed to significant improvements and changes in curriculum design and transaction. Some initiatives in this regard are attached as **Appendix 'D'**

4. Interdisciplinary programmes started

Emphasis has been made during the year to integrate teaching among various disciplines and reasonable success has been achieved in this regard. Further, various departments have corroborated in many inter-departmental research projects, the details of which are attached as **Appendix 'E'**

5. Examination reforms implemented

(a) The institution takes pride in following implicitly the university guidelines in the conduct of evaluation and assessment. Additionally, the college because of its proven commitment to efficient conduct of various assigned responsibilities is virtually the torch bearer and role model for other colleges.

(b) The new faculty members joining the institution are sensitized to modern methods of evaluation by the Dept of Medical Education through a week long Teachers Training Course. The department conducts two courses per year with 25 participants and it is an extremely popular course with participation from faculty of other Medical Institutions of Pune as well as from other teaching hospitals of the Armed Forces Medical Services.

(c) The departments follow a right mix of various examination methods for the assessment of students ranging from discussion on answer sheets by the faculty with the student and time to time internal assessment of both practical and theoretical knowledge of both undergraduate and postgraduate students to keep them updated of recent events as well as their own progress.

(d) The institution on behalf of MUHS conducts Combined Assessment Programme (CAP) for university examinations. The college also conducts the various theory examinations for MUHS

(e) More departments have introduced Objective Structured Practical Examination (OSPE) & Objective Structured Clinical Examination (OSCE) as the preferred mode of formative evaluation for undergraduates. However, as the traditional mode of evaluation is still in vogue for the undergraduate university examinations held by Maharashtra University of Health Sciences, this cannot be implemented as the sole means of evaluation.

(f) The application form for AFMC entrance examination is available online and Admit Cards are made downloadable online. All information pertaining to the entrance examination is regularly updated on the web and the admission cell is air-conditioned with all modern facilities.

6. Number of candidates qualified NET / SET – Not applicable.

7. Total number of seminars / workshops conducted, papers published / presented by the faculty members of the college

Seminars / conferences / workshops conducted -

- (a) Total number of seminars conducted - 32, including 20 seminars by MOJCC Officers'.
- (b) Total number of workshops / CMEs conducted - 11 (2010); 04 (2011)
- (c) Total number of faculty lectures held - 18 (2010); 07 (2011)
- (d) Total number of guest lecture's held - 11 (2010); 04 (2011)
- (e) Total number of papers published - 96
- (f) Total number of publications authored / edited by college faculty - 55
- (g) Total number of National level conferences conducted - 17
- (h) Total number of workshops conducted by College of Nursing - 11

8. Research projects

- (a) During AFMRC – 2010, 26 new projects were considered and all have been sanctioned. Out of 90 current projects, 84 are likely to be completed by the end of the year 2010-11. The number of new proposals put up for sanction during AFMRC – 2011 were 31.
- (b) The research projects are funded by Armed Forces Medical Research Committee (AFMRC) under sponsorship of DRDO.

9. Patents generated

Nil

10. Collaborative research projects

(a) The institution actively encourages collaborative research projects with Accredited national / international bodies. The ongoing collaborative research projects are:

	<u>Department</u>	<u>Collaborating Agency</u>
(i)	Dept of Preventive Medicine	WHO, NIV, ICMR
(ii)	Dept of Microbiology	Life Sciences Research Board, Dept of Biotechnology, GOI

(iii)	Dept of Blood Transfusion, Medicine	Dept of Biotechnology, GOI
(iv)	Dept of Psychiatry	WHO, DIPR, DGHS
(v)	Dept of Hospital Administration	BIS, AIIMS
(vi)	Dept of Dental Surgery	NFTDC & INMAS
(vii)	Dept of Pediatrics	ICMR
(viii)	Dept of Obs & Gynae	NARI
(ix)	Dept of ENT	DEBEL, NSTL Vizag, DIAT Pune, NML, Jamshedpur

(b) INC collaborated project with Global Fund for AIDS, Tuberculosis & Malaria project (GFATM) has been started for College of Nursing with 35 – 40 nurses per session for the duration of 5 years. Presently the session is of 6 days each.

(c) Data base of all medico-legal cases occurring in healthcare establishments of the Armed Forces Medical Services has been created for statistical and analytical purpose in Department of Forensic Medicine.

(d) A project on **“Analysis of maternal neonatal factors that influences the nucleated and CD34⁺ cell yield in umbilical cord blood”** is being conducted in collaboration with Dept of Obs & Gynae, Department of Transfusion Medicine and MUHS.

(e) A project on **“Efficacy of stem cell in Acute MI”** is being conducted by Department of Transfusion Medicine in collaboration with Department of Cardiology, MH (CTC) and DBT, Govt. of India.

(f) A project on **“Efficacy of stem cell in Stroke”** is being conducted by Department of Transfusion Medicine and DBT, Govt. of India.

(g) A project on **“Use of stem cell in Diabetes Mellitus”** is being conducted by Department of Transfusion Medicine as an AFMRC Project in collaboration with Department of Endocrinology & Neurology CH(SC).

(h) A project on **“A study on rapid induction via Manali Leh road : A randomized field trial”** is being conducted by Dept of Physiology in collaboration with HAMRC.

(i) A study to **“Assess the effectiveness of local application ointment Salbutamol for improvement of dexterity and reduction of incidence of frost bite in troops working in subzero temperatures at high altitudes”** is being conducted by Department of Physiology in collaboration with HAMRC.

(j) A project on **“Biomedical Rehabilitation of Soldiers with Sensorineural Hearing Loss (SNHL) using the Bionic Ear Concept”** is being conducted by Department of ENT in collaboration with DEBEL, Bangalore.

(k) Further the college has active academic tie ups with the following foreign institutions:

- (i) US Pacific Command for AIDS Control Measures.
- (ii) Asia Pacific Conference of Military Medicine.
- (iii) International Congress of Military Medicine.

- (iv) World Health Organisation.
- (v) Bionic Ear Institute, Melbourne.

11. Total research grants received from various agencies (in Lakhs)

- (a) The grants for various academic projects is as under:

Projects

- (i) Armed Forces Medical Research (AFMRC) projects – Rs 92,50,230/-
- (ii) DRDO grant for AFMRC projects – Rs 9,07,500/-

Grants

- (i) Engineering Services Grant – Rs 55 lakh
- (ii) Library Grant – Rs 83 lakh
- (iii) Incidental & Miscellaneous Grant – Rs 3,67,47,456/-
- (iv) Annual Training Grant – Rs 16,25,100/-
- (v) TT & IE Grant– Rs 83,02,544/-
- (vi) Amenity Grant – Rs 31,544/-
- (vii) ETG Grant – 16104/-
- (viii) National AIDS Control Organisation Grant – Rs 96,000/-
- (ix) MCI grant – Rs 3,90,000/-
- (x) Cadet's Monetary Grant – Rs 10,89,900/-
- (xi) Entrance Examination Grant – Rs 24 lakh

12. Number of research scholars

The institution generates its own research assistants in house from undergraduate and post graduate students, who work in various institutional research projects. As such, there are no paid research scholars employed by the Institution. However 09 scientists from Defence Research Development Organisation are employed by the college for full time research in various fields. There is financial sanction to employ one Audiologist and One Speech Therapist as SRAs for the Bionic Ear Project. However, though there are some disciplines recognized for PhD programmes, there are no full time PhD scholars availing these programmes at present.

13. Citation index of faculty members and impact factor

Proposal to obtain citation index of faculty member is in progress with Elsevier. Based on the decision by the Governing Council during AFMRC in Feb 2011, with the April 2011 issue, Medical Journal of Armed Forces Institute (MJAFI) has shifted over to the publishing house Elsevier India Pvt Ltd.

14. **Honors & Awards to the Faculty**

Many of our faculty members have won national awards and honours, the details of which are given in **Appendix 'F'**.

15. **Internal resources generated**

(a) The college gets funding for various non-research areas as grants from Govt. of India. The details of such funds allocated for the college has been mentioned in para 11 above.

(b) The institution does not generate any funds from academic activities, as the education is not fee based. However, it generates resources from the following activities.

- (i) Sale of prospectus for admission for undergraduate and post graduate courses.
- (ii) Profits from Unit Run Canteen and Unit Cinema.
- (iii) Rental from Shopping Complexes.
- (iv) Sponsorship from trade for Conferences / Workshops / Updates as on required basis.

16. **Details of Departments getting SAP, COSIST / DIST, FIST etc assistance recognition –**

NIL

17. **Community services**

(a) Bi-weekly visit to village Kasurdi adopted by the college where comprehensive medical services by all the Departments of the colleges are being provided. Beside this, various health education camps are organized by the college and the Departments from time to time. The village has a population of about 1800 in 331 houses.

(b) A bi-weekly morbidity clinic has been established in the premises provided by Gram Panchayat, which provides basic curative service besides referral services to specialist OPDs at CH(SC) Pune through civil OPD. About 200 – 250 patients are attended to at the morbidity clinics conducted every Tuesday & Friday.

(c) Medical Camp are conducted by various Departments at Khor village, Pune.

(d) Treatment to civilian patients was provided free of cost.

(e) Awareness programme and Cardio Pulmonary Resuscitation training was done during anesthesia week celebrations.

(f) Health surveys were conducted at Rural Health Training Centre (RHTC) and health education was imparted to school children and community at RHTC.

(g) Motivating Armed Forces Personnel and families and the population in general for donating their bodies after death for teaching purposes was carried out by the Department of Anatomy. Embalming dead bodies of defence personnel and relatives for transportation to their home town for last rites was also conducted with due diligence.

18. Number of teachers and officers newly recruited

(a) The authorized strength of the teaching faculty being fixed, they are turned over after a tenure of 4 – 5 years in the college. This helps in training more doctors as teachers. The influx of new talent also yields new ideas and a healthy competition for the slots available.

(b) Further, revision of manpower authorization as per the latest MCI recommendations is in progress.

(c) The faculty in all academic departments conforms to the requirement of MCI.

19. Teaching : Non teaching staff ratio

(a) Current ratio of teaching to non-teaching staff is approx 1 : 2.8

20. Improvement in library services

(a) A new library building “**Ashoka Chakra Library**” has been constructed under Annual Major Works Programme for Rs 283.14 lakhs including furniture, power backup & split ACs. Construction work was completed in Sep 2010 and presently the building is in active use for the students and faculty of this college.

(b) VSNL Broad Band for Internet connectivity has been installed on 06 computers and 30 more computers will be added this year.

(c) Online access to around 2000 full text journals by NML vide web site of www.erned.in has been made available to all departments.

(d) Journal subscribed by AFMC have been indexed on web site www.apsaonline.net. This web page will be very useful to MOs at periphery, where they can access the various journal abstracts.

(e) A website of the Library is being developed to help the medical officers in accessing the online resources. Procurement of MD Consult package of online journals for the year 2011-12 is under progress.

(f) The library is having SLIM21 software to enter all the books in the data and these can be accessed by accessing <http://mainlibrary-pc/w27>.

(g) The College has been selected as a node for the “**National Knowledge Commission**”, which will harness the extensive body of knowledge available in the country to the students.

21. Number of new books / Journals subscribed and their value

<u>Items</u>	<u>Value</u>
(a) No of new books procured: (877)	Rs: 29,94,129
(b) No of Journals subscribed: (171)	Rs: 22,55,871
(c) 140 Foreign & 31 Indian	
(d) In addition College of Nursing has subscribed to books worth Rs. 1,30,000/- and journals worth Rs 1,00,000. Some of the special journals are Nursing Forum, Nursing Outlook, American Journal of Nursing, Canadian Nurse, Clinics of North America and Nursing Research.	

22. Number of courses for which student assessment of teachers is introduced and the action to be taken on student feedback

- (a) Feedback from UG students is carried out centrally in Dean's office and disseminated and discussed with all HODs at the Academic Body Meetings. Academic departments also obtain feedback from UG and PG students informally and relevant changes made in the teaching learning process accordingly.
- (b) Feedback from periodic assessment of students is utilized to modulate teaching methodology, with an aim of attaining optimum level of training.
- (c) Feedback from PG students is obtained departmentally during passing out.
- (d) Based on the feedback, efforts are made to make the teaching sessions more interactive, interesting and practical oriented by use of better audio-visual aids and appropriate modification of syllabus.

23. Unit cost of education (per year)

- (a) PG - Rs 17,93,365/- per year (Rs 12,453/- per week)
- (b) UG - Rs 20,59,617/- per year (Rs 9,535/- per week)
- (c) Nursing - Rs 1,30,000/- per year
- (d) For paramedicals the calculation for estimating unit cost is in progress.

24. Computerisation of administration and the process of examination results and issue of certificate

- (a) Application forms for AFMC entrance examination & Admit Cards have been made available on line for the convenience of students.
- (b) All information pertaining to the entrance examination is regularly updated on web site for benefit of general public.
- (c) The admission process is fully computerized, including all administrative procedures pertaining to academic activities.
- (d) All departments now have been provided with broadband access to internet and the proposal for LAN & office automation for the entire college is

complete. The proposal for Campus Wide Network is in advanced stage of being processed for approval.

(e) Inventory control applications have been introduced in medical stores, QM stores and central library.

25. Increase in the infrastructural facilities

(a) New Central Cadets Mess under Annual Major Works Programme 2005-06 was completed in Jul 2010 (Cost of Project – Rs 261.14 lakhs).

(b) Three additional classrooms at College of Nursing were constructed in 2008-09 (Cost of Project Rs 24.85 lakhs).

(c) Additional facilities have been added to the mortuary like reception for visitors and families, change rooms for staff, lawns, parking space, waiting room and a separate air-conditioned room for keeping decomposed bodies, which gives dignity to the dead and significant improvement for this neglected area of the College.

(d) Renovation of Blood Donation Centre and air-conditioning of library and class room has been completed in Department of Transfusion Medicine.

(e) Installation of an improved sound system in the Open Air theatre for the cadets and students of the college have added significantly to the recreational facilities of the college.

(f) The old library has been converted into '**Sanjeevani Hall**' for providing continuous medical education, conferences / seminars and lecture hall for conferences.

(g) Dedicated lecture hall for conduct of paramedical training with seating capacity for 100 students have been made available for conduct of paramedical courses.

(h) For those having interest in astronomy, telescopes have been procured and kept in the UG hostel.

(i) Histology translide galleries and 05 new cadaver tanks with a Hydraulic system have been constructed for retrieval of bodies by Department of Anatomy.

(j) 5 lecture halls have been provided with new ergonomic seats, a seminar room with a computer and Plasma TV screen as part of Clinical Signs lab in the Department of Medicine.

(k) Polysomnography, TMT lab and EEG / EMG labs have been made functional at the Department of Medicine.

(l) Relaying of the lawn and provision of sprinklers in the main playground have added value to the efforts towards arboriculture.

(m) Special repairs to hospital accommodation and provision of new furniture to hospitals has been completed.

(n) Widening of the roads in the campus and naming them after various dignitaries of the college has been carried out.

(o) Development of landscaped areas within the campus is a continuous ongoing process and a significant part of the large campus was identified for landscaping and green cover.

(p) The new state of the art library building, managed with library management software, document reprographic facilities, 24 hours internet access through 4 MBPS ILL and document delivery facilities have been made functional.

(q) A new PG block with 03 class rooms and two additional toilets has been constructed at the College of Nursing.

(r) New accommodations have been constructed for foreign postgraduate trainees in form of a separate complex with 08 quarters.

26. **Technology upgradation**

(a) **Information technology**

(i) A sum of Rs 90.77 lakhs has been spent to procure hardware, stationery and consumables for the college in 2010-11. 74 PCs, 07 VPS, 03 Servers, 25 Mono Printers, 02 Colour Printer, 63 1KVA UPS, 02 5KVA UPS, 07 Photocopier and VGA switches and LAN were some of the main hardware procured for the college.

(ii) 4 MBPS ILL connection from BSNL has been provided for faster internet based services with UTM modem for security threats.

(iii) All computers have been provided with Mc Affee antivirus software for protection

(iv) Passwords and log in IDs have been provided for every departments and faculty for the security of data on computer and internet facilities

(v) Intercom connections to all departments have already been provided.

(vi) E – lectern, Interactive white boards and Air Slates along with PA equipments have been procured.

(vii) New software developed for keeping database of all medico legal autopsies has been developed in the Dept of Forensic Medicine.

(viii) An LCD display panel displaying ECGs and X rays has been procured for the students in Dept of Medicine.

(ix) LCD projectors for PBBSsc classroom, digital BP apparatus and electronic thermometer has been procured for the Nursing Arts laboratory.

(b) **Medical equipment**

(i) Modernization of various facilities is a continuous process.

(ii) State of the art ventilators, anesthesia work stations, infusion pumps & ultrasound machines have been procured for Department of Anesthesia.

(iii) The Department of Community Medicine has planned for automation of laboratory tests for chemical analysis of water and an

internet based awareness programme for all the specialities of the College.

(iv) The Department of Dental Surgery has procured new equipments like transport distractor, table top autoclaves, reconstruction system and resorbable rigid fixation system. In addition, switching over from conventional to digital photography of patient's treatment and records has made data archiving, transfer and retrieval more convenient.

(v) An electronic stethoscope has been procured by the Department of Medicine for teaching better appreciation of auscultatory findings to UG students.

27. Computer and internet access and training to students

(a) Internet centre with 4 MBPS leased line is available round the clock in the main library and Broad band connectivity has been made available to all departments.

(b) A total of five computer Training laboratories have been established with 15 terminals each for UG, PG, paramedical personnel and nursing cadets.

(c) Computer courses for students and staff are conducted by the Department of Hosp Adm & Medical Informatics in collaboration with CDAC like Diploma in Information Technology (DIT), Advance Diploma in Information Technology (ADIT) & Certificate Course in Computers Operations (CCCO). The total cost of the training was Rs 17.87 lakhs in the year 2010-11. The beneficiaries included were 03 staff and 20 paramedical personnel.

28. Financial aid to students

As per the existing Govt. of India policy, the following allowances / subsidies are offered to undergraduate students:

(a)	Tuition fees	-	Free
(b)	Boarding & lodging	-	Free
(c)	Grant for books	-	Rs 12,000/- per cadet per year
(d)	Uniform allowance	-	Rs 6000/- initially & 1250 per year per cadet as maintenance allowance
(e)	Leave travel	-	AC III tier on warrant to home\ station/yr
(f)	Messing	-	Approx Rs 2920/- per cadet per year
(g)	Hair cutting allowance	-	Rs 100/- per cadet per month
(h)	Washing allowance	-	Rs 400/- per cadet per month + Rs 150/- during break
(i)	Grant in Aid	-	Rs 450/- per cadet per month
(j)	Monetary Grant (club & extracurricular activities)	-	Rs 150/- per cadet per month

- (k) Miscellaneous grants - Rs 1100/- per cadet per year

29. Activities and support from the Alumni association

- (a) A large number of faculty including the Dean & Deputy Commandant are alumni of the institution and are actively involved in various activities of the college.
- (b) Further, Alumni Association has supported environmental up gradation, placement of graduates and various academic programmes of the College.
- (c) The College proposes to celebrate its “**Diamond Jubilee**” in the year 2012-2013 with extensive support and participation of the Alumni Association.

30. Activities and support from parent – teachers association

- (a) The students are drawn from all over the country and it is not feasible to interact with the parents regularly. However, parents have extensive interaction with the faculty during the admission process and at the time of passing out.
- (b) The parents are kept informed about the performance of their wards and are requested to interact with the teachers personally whenever deemed necessary. The Dean, the Heads of Departments and faculty members are available for interaction with parents whenever they visit the campus.

31. Health services

- (a) All health care services are provided free to the faculty / students.
- (b) All UG and PG students undergo detailed medical examination at the time of admission and passing out.
- (c) Blood Donor Motivation, provision of safe blood, holding blood donation camps are some special features.
- (d) Annual Medical Examination for all PG students is compulsory as per the service rules.

32. Performance in sports activities

- (a) There has been a continuous and regular participation of students in various sports activities at college, state and national level. Physical training instructors are also available in the college for this purpose.
- (b) The College has **Sports Medicine Centre** affiliated to the Army Institute of Physical Training (AIPT) which has ultramodern Human Performance laboratories, including kinetic systems, ergometers, cardio-circulatory and ventilator monitoring, lactate analyser and anthropometric assessment. The institute offers support services to training of coaches sportsmen, nutritional advice to sports person and talent spotting based on scientific tests. Rehabilitation of injured sports persons, specialized treatment

and physiotherapy for sports related injuries is also being carried out in this centre.

(c) Students of Undergraduate wing and College of Nursing have represented MUHS in a number of sports disciplines. Salient features and achievements are reflected in **Appendix 'C'**.

33. Incentives to outstanding sports person

(a) Due weightage is given to sports persons while considering various student appointments, prizes and awards.

(b) The new grading system takes into consideration achievements in sports and other co and extracurricular activities.

34. Student achievements and awards

(a) 2 PG Students attended Bombay Medical Congress at INHS, Asvini and Dr. Neelesh Jain won 2nd best paper presentation award.

(b) 4 PG Students attended the national conference (TRANSCON) at Hyderabad in Nov 2010.

(c) Best paper presentation by Maj (Dr) Ankur Joshi in young Anesthesiologists section in CME 2010 held at AFMC.

(d) Best poster presentation by Maj (Dr) Alok Jaiswal in CME 2010 held at AFMC.

(e) Best paper (Certificate of Honor) was awarded to Med Cad Supreet Khare for his paper titled "Effect of change in body position on resting electrocardiogram in young healthy adults – Implications for clinical monitoring" at UG Medical Students Regional Conference held at Jawaharlal Nehru Medical College, Belgaum (25 – 27 Feb 11) under guidance of Lt Col Anuj Chawla.

(f) Maj Pradeep Kumar, PG resident won the best paper award for 2010-11 in the Annual Poona Ophthalmological Society meeting.

(g) Sqn Ldr Naveen was awarded the first best paper presentation in Interdisciplinary approach in Prosthodontics at Indian Prosthodontic Society Conference (12 – 14 Nov 10).

(h) Maj Yavraj Issar's poster titled "Comparative evaluation of mandibular distraction Zone with ultrasound vis-à-vis radiography" – Best overall poster and Rs 2500 cash and certificate of honour at 35 AOMSI Conference in Coimbatore (01-04 Dec 10).

(i) SLC Saugat Ray won 1st prize in paper presentation – Clinical category at 14th IOSPG convention in Chennai (22 - 24th Dec 10).

(j) SLC Oommen Nainan won 1st prize in poster competition – Clinical category at IDA all Institute Post Graduate Dental students in Pune (24-26 Sep 10) and Clinical category at 9th dental update at AFMC Pune (22-24 Nov).

(k) Maj Parul Lohra won 2nd prize in poster presentation – Comparative evaluation of treatment outcome in patient with aggressive periodontitis with

and without adjunctive submicrobial doxycycline at ISP Conference in Bangalore (22-24 Nov 2010).

(l) Maj Alpana Gupta won 1st prize in poster session in Hematology & 2nd in PG Quiz during MAPCON 2010.

(m) Maj Shamresh Kumar Singh won 2nd prize for Oral presentation in Histopathology during MAPCON 2010.

(n) The College Academic Awards and Medals for the year 2010 are annexed as **Appendix 'G'**.

35. Activities of Guidance and Counseling Unit

(a) Each "**House**" in the hostel has been put under the charge of two closely involved teachers for the purpose of student welfare.

(b) The students are also divided into 4 houses for the purpose of sports and associated activities and placed in charge of senior faculty members.

(c) Academic guidance and counseling is carried out by individual departments.

(d) A mentoring facility has been recently introduced, where one tutor guardian interacts closely with a group of about 15 students. This has made a difference in various facets of UG training including discipline.

(e) A professional counselor has been appointed and is available to students to discuss their problems directly with the counselor. This allows the students to freely discuss all their personal problems and seek guidance and solutions. Regular feedback from students is taken and counseling imparted as and when required.

(f) A new credit system has been introduced wherein the overall, academic, extracurricular and co curricular activities of the student is rated. This has a bearing in selection of students for short service commission and permanent commission and also the choice of service. Further, it lays emphasis on code of conduct of the institution and any deviation from it is considered negatively and penalized.

36. Placement services provided

(a) All students have a service liability.

(b) The students are absorbed in the Armed Forces Medical Services i.e. 100% placement is offered to successful students on completion of MBBS, BSc Nursing and Post graduate courses as commissioned Medical Officers and Nursing Officers in Armed Forces Medical Services.

37. Development programmes for non-teaching staff

The following courses are being carried out by the institution for the non-teaching staff.

- (i) Training in computer and Hindi Classes.
- (ii) IEC on Biomedical waste.

- (iii) Periodic technical up-gradation programmes.
- (iv) Special Trained Nursing Assistants (STNA) course for Operating Room Assistants.
- (v) CCCO, DIT and ADIT courses for staff for gaining competence in working with computers.

38. Additional remarks if any

- (a) Rural Health Training Centre, Kasurdi run by the Department of Community Medicine has brought out a significant impact on health status and health seeking behavior of residents of Kasurdi and nearby villages.
- (b) Campus remained free of ragging incidents.
- (c) NCC wing was reactivated fully for the fresher batch and the gains were immense and obvious through laudable improvement in military bearing and conduct of fresher (V-2) batch cadets.
- (d) The trust and relationship between AFMC and the university is on an all time high.
- (e) The student-staff relationship, discipline, attendance, results, military bearing, turn out of cadets and esprit de corps has improved tremendously, which gives a great sense of satisfaction.
- (f) Central Cadet Mess became functional for all medical cadets which is a landmark in itself. All cadets have the facility to dine in together. This has helped in establishing the camaraderie among the cadets and in practicing mess etiquettes.
- (g) Inauguration of PG building in the College of Nursing is also an asset for the students of College of Nursing.
- (h) **The overall progress of the College in every domain, be it academic or research or extra-curricular activities has been remarkable during the academic year 2010-11.**

PART C**Explain the plans for the institutions for the next year****1. Deemed University Status**

AFMC has taken the initiative for integrating all medical and paramedical training activities of Armed Forces under one umbrella. The process is underway for recognition of the College as a “**Deemed University**” and significant progress has been made. During the current year, the college will intensify its efforts towards achieving the deemed university status.

2. Centres of Excellence

The College has identified within the institution “**Centers of Excellence**” where high quality academic, research and patient related activities are being carried out. In addition to this stamp of recognition, these centers will get priority in matters of allocation of grants and funds for further development.

3. New courses

The College will pursue various proposals for the courses to be initiated by the college and strive to get MCI approval for these courses; some of these courses being post-graduate Diploma courses in Military Medicine, Family Medicine, Emergency Medicine and Sports medicine.

4. Upgradation of current courses

(a) The College proposes to establish a formal system for concurrent evaluation of the relevance of the existing courses and suggest changes required in their syllabi, curriculum, conduct and evaluation.

(b) The College proposes to empower Dept of Medical Education as a central body, which will work in tandem with the departments concerned and monitor progress in this regard as an annual exercise.

(c) The College also proposes introduction of “**Simulation based and Problem-solving**” mode of training to synergize the behavioral and cognitive abilities of the students.

5. Faculty training

(a) The College takes pride in its faculty development programme. With well over 100 faculty members turned over every year, it is an arduous task in introducing these faculty members to the newer Medical teaching technology.

(b) The College proposes to support and upgrade the Dept of Medical Education (DOME) for conducting more sensitization courses as part of faculty development program. Presently DOME conducts a week long MET workshop twice in a year to sensitize teachers to newer Medical Education technology.

(c) The College has also started assimilating teachers from outstation service hospitals in its “**Teacher’s training programme**” for holistic development of teaching and training competencies.

6. **Model classrooms**

The College has designed and developed some “**Model Classroom**” with aid of current technology. In addition to the multimedia audio-visual facilities currently available, the class rooms have been equipped with interactive boards for initiating innovative and interactive teaching methodologies. The College proposes to increase the number of such classrooms in the future.

7. **Faculty improvement / exchange programmes**

(a) Up gradation of skills and knowledge base of the faculty continues to be of paramount importance to the quality of education an academic institution imparts.

(b) The college will attempt to provide a window of opportunity to every faculty member, at least once during their tenure in the college to undertake fellowships of short duration for this purpose in institutions in India and abroad as a part of faculty exchange programmes.

(c) During the current academic year, the college will also identify likely establishments of repute in India and abroad for regular faculty exchange programmes and will seek administrative sanction for the same.

(d) The department of Medical Education will strive to sensitize the faculty to the latest developments in Medical Education Technology and improve their teaching skills.

(e) Considerable progress has already been made in the direction with the Department of Hospital Administration by organizing faculty and student exchange programmes with National Institute of Health and Family Welfare (NIHFW) and All India Institute of Medical Sciences (AIIMS), Delhi.

8. **Improvement in quality of research conducted by faculty / PG residents**

Significant effort has been focused on improvement in the quality of research for its practical value to the system and the efforts will be further increased towards this direction to make research more user-friendly.

9. Student participation in research

- (a) There has been an increase in the number of studentships offered by various agencies like ICMR and MUHS.
- (b) In order to introduce students to meaningful clinical research, the college will endeavor to promote further student participation in various in-house research projects as research assistants.
- (c) The college will encourage UG and PG students to actively participate in National Conferences, CME programmes and workshops in large numbers.

10. Consultancy

- (a) The institution has gained considerable core competency in certain areas of medical education and research. It is in a position to provide consultancy to other organizations / institutions in these areas.
- (b) During the current academic year, the college will explore the possibility of providing such services primarily to the Armed Forces, Government of India institutions and public and private sector organisations.
- (c) Initial consultancy projects have already been undertaken in the affiliated hospitals located at the Pune-Kirkee complex.

11. Collaborative research

- (a) In order to improve the competence and quality of research, the institution will identify possible partners for collaborative research, especially those under DRDO and WHO and propose projects for collaborative research.
- (b) Many such collaborative projects are already underway and college will endeavor to increase such collaborative research initiatives with institutions and agencies of repute in India and abroad.

12. Student welfare activities

- (a) Considerable number of welfare projects for the students are under various stages of approval and implementation.
- (b) The college has been able to provide a major thrust in this direction by inauguration of the Central Cadet Mess.

13. Library facilities

- (a) Since the new library is functional, all efforts will now be directed to provide document reprographic facilities, document delivery facilities and making it the best in the country.
- (b) Considerable attention will be paid towards integration of information and knowledge available in the world-wide web with scholarly text-books for overall development of the students.

14. Digital library

- (a) A large amount of digital data is being generated by the various departments every academic year.
- (b) The college will coordinate its compilation and create a facility, where students can have access to these teaching aids.

15. Membership of Professional bodies

Membership of Professional bodies for faculty members of the College is on the rise and such effort will be encouraged towards recognition of singular contribution of college faculty to various professional associations, both in Indian and abroad.

16. Online CMEs / WebCasting / Teleconferencing

- (a) The College wants to use the already active web site for webcasting the various conferences, updates and workshops to the periphery.
- (b) The College will also seek to be on the teleconferencing grid of the Armed Forces.
- (c) Development of the college website is an effort towards this direction only.
- (d) The College has been selected as a node for the “**National Knowledge Commission**”, which will harness the extensive body of knowledge available in the country to the students.

17. Short Term in service courses

- (a) The college proposes to offer various courses of short duration for in-service candidates and civilians.
- (b) The college is in the process of identifying the various courses which can be offered under sponsorship of various agencies like WHO and hopes to implement the same, once sanctions have been obtained.
- (c) The proposals for short term certificate courses pending with MUHS will be pursued and necessary administrative sanctions will be obtained for beginning these courses.
- (d) Various in-service courses have been planned to be implemented as part of BPMT (Bachelor of Para Medical Training) with due recognition from MUHS.

18. Improvement in infrastructure

- (a) New Diamond Jubilee Block will soon house the diagnostic departments viz., Biochemistry, Pathology & Microbiology.
- (b) A new printing press is under procurement for this college

- (c) Various latest equipments like Duplo machine, compactors for keeping documents of trainee officers is a continuous process and will be upgraded.
- (d) Various other projects planned in Annual Major Works Programme of 2011-12 are as follows:
- (i) Provision of 500 KVA Transformer for augmentation of electric supply to various technical departments for an approx cost of Rs 29.97 lakhs.
 - (ii) Provision of 320 KVA Diesel Engine Genset in Department of Interventional Radiology Centre (IRC) with an approx cost of Rs. 36.65 lakhs.
 - (iii) Provision of 36 Single Junior Commissioned Officers' (JCOs) deficient OTM accommodation with approx cost of Rs 260 lakhs.
 - (iv) Provision of 24 Single Officers accommodation for PG Trainees with approx cost of Rs 250 lakhs.
 - (v) Provision of an Examination hall for 1000 students as per MCI standards with approx cost of Rs 547 lakhs.
 - (vi) Provision of Olympic size (50 M x 26 M) Swimming Pool with approx cost of Rs 350 lakhs.
 - (vii) Provision of a central gymnasium for cadets and officers with approx cost of Rs 82.80 lakhs.
 - (viii) Provision of lift for Golden Jubilee Block with an approx cost of Rs 28.00 lakhs.
 - (ix) Provision of subway AFMC gate No 07 (Near War Memorial) to Race Course with an approx cost of Rs 49.50 lakhs.
 - (x) Provision of multi-storey building for nursing officers and cadets mess with single living accommodation.

19. Environmental upgradation

The college has a continuous process of environmental upgradation by progressively increasing the landscaping content in the various zones. The college is also taking an active part in the beautification project of various academic, accommodation and residential areas inside and outside the college campus.

20. Admission process

The entire admission process is planned to become completely online and user friendly in the coming year

21. Extra and co-curricular activities

- (a) The college continues to excel in various extra and co-curricular activities.
- (b) The college will continuously provide all support for further improvement in all extra and co curricular activities by students.

22. Newer hospital services

Improvement in hospital services is an ongoing process and the college takes pride in its efforts to continuously enhance the quality of patient care provided in its affiliated hospitals. A major step will be taken in this direction after completion of the new multi-storied project of Command Hospital (SC).

23. Community related services

(a) The college will continue its commitment to community outreach programmes through various medical camps at locations, where medical facilities are inadequate.

(b) The college plans to take initiative in patient education in larger scale on issues like HIV and life-style diseases with the help of NGOs.

24. Disaster management / Aid to Civil authorities

The college will have an upgraded disaster management programme with Quick Reaction teams available with affiliated hospitals, holding regular mock drills to aid both military and civil authorities during disaster situations.

25. New Credit system for undergraduate students

A credit system has been designed, taking into account the academic performance, performance at extra / co-curricular activities and attendance at academic programmes for selecting students for Short Service Commission and Permanent Commission and in the choice of service.

26. Mentoring for undergraduate students

Tutor guardians have been appointed from faculty for small batches of undergraduate students. These mentors will interact with the students closely and actively groom them and offer guidance in solving their problems. More emphasis will be given to this aspect during the current year.

27. Building Quality Literacy

“Reap what you sow” is an old English proverb. The College appreciates the need for developing ‘Quality Literacy’ among its staff on its path towards ‘Total Quality Management’ by holding multiple workshops on the subject, with resource personnel drawn from own staff as well as reputed civil institutions.

28. Continuous Quality Improvement

The journey towards Total Quality in Medical Education continues at the Armed Forces Medical College and the institution will spare no efforts towards achieving its objective of continuous quality improvement in every domain of academic and research in coming years.