

Annual Quality Assurance Report (AQAR) of the IQAC

Name of the Institution : MKSSS's Cummins College of Engineering for Women

Year of the Report : 2010-11

PART – A

Continuing with previous years plan, Principal and Heads of Departments decided to pay attention to the following points for the overall quality improvement of the college.

- i) Initiatives to be taken towards faculty development programs. Faculty members to be sponsored for higher education to get M. E. / Ph. D. Degrees, to attend various conferences / seminars / workshops / submit and present papers to International journals and conferences, to initiate consultancy activities, etc.
- ii) From the point of view of laboratory developments, to prepare and submit project proposals under MODROBS / TAPTEC schemes of AICTE and similar schemes of DST.
- iii) To implement the scheme of obtaining feedback from students about the performance of teachers.
- iv) To arrange lectures from experts from industry and other organization to educate students for important topics, which are not covered in the University curriculum.
- v) To provide necessary health care and medical facility to all the students.
- vi) To motivate students to participate in various sports activities.
- vii) To provide to students career guidance and counseling for higher studies and competitive examinations.
- viii) To see that more number of girls get placed through campus recruitment process.
- ix) To motivate non-teaching staff members to improve their qualifications.
- x) To develop collaborative activities with industries and other organizations.
- xi) To encourage students to participate in various extra-curricular and co-curricular activities.
- xii) To make efforts to increase number of students securing first class.
- xiii) To conduct training for English communication skills to improve employability of our students.

PART-B

1. Activities reflecting the goals and objectives of the Institution:

- Proposals have been submitted for funding to AICTE.
- Faculty members encouraged for higher studies (ME, Ph. D).
- Faculty members encouraged to participate in Conferences / Workshops / Seminars.

2. New academic Programs initiated (UG and PG):

Nil

3. Innovations in curricular design and transaction:

- Few faculty members participated in the curriculum development activities of Pune University.
- Most of the faculty members, being well versed with computers, internet, audio visual aids, multimedia etc., use of computers, LCD Projectors for classroom and laboratory teaching has been adopted.

4. Inter-disciplinary programs started:

- Since the college is affiliated to the Pune University, curriculum of all the courses are designed by the University only. There is no interdisciplinary program under Pune University.

5. Examination reforms implemented:

- Results of test examinations, mock oral examinations as well as University examinations are communicated to guardians.

6. Candidates Qualified: NET / SET / GATE etc.

- For Engineering Courses, NET / SET examinations are not necessary. To go for higher studies, 22 students appeared for GATE examination.

7. Initiative towards Faculty Development Programs:

- Evaluation of teachers' performance was carried out through feedback received from students as well as through self-appraisal.
- This year, our faculty members have attended 67 various conferences / workshops / seminars / STTP programs.
- One patent has been filed by our faculty members, this year.

16. Internal resources generated:

- The College solely depends on the tuition fees received from students. This is the only source of revenue.

17. Details of departments getting SAP, COSIST, (ASSIST) DST, FIST, etc. assistance / recognition:

- Grant-in-aid of Rs. 4.5 lakhs sanctioned by AICTE under MODROBS scheme for "The Development and Ungradation of Distributed Embedded Systems Lab"

18. Community services:

- The College conducted blood donation camp, traffic control awareness rally, etc. Under the Ministry of Youth Affairs and Sports, NSS cell has been established by the college in 2010. The NSS unit is granted by Pune University, to include 50 students.
- Our college has adopted village Kalyan, Tal. Haweli just 35 kms. away from Pune. We conducted the special residential camp of 7 days at Kalyan from 11th Jan to 17th Jan 2011. 28 students attended the camp. Various activities were conducted for seven days.
- In addition to NSS activity, another activity was organized for blind students. Students from S.E. and T.E. E & TC worked as readers and writers for the Blind Students from the MKSSS's Mahilashram High School for their midterm exams from 22nd Oct. 2010 to 27th Nov. 2010.
- A seminar on Traffic Rules was organized. 48 students attended it. 40 vehicles were checked for PUC.

19. Teachers and officers newly recruited:

- 13 teachers newly recruited on regular basis.

20. Teaching – Non-teaching staff ratio:

- 142 : 149 i. e. 1 : 1.04

21. Improvements in the library services:

- Science-direct e-journals subscribed.
- Access Engineering e-books are made available to students and faculty
- Content / abstract / summary of accession books is made available on library OPAC.
- Alert service of books through e-mail to teaching staff has been started.
- Issuing of reference books to teaching staff between Friday and Monday has been started.
- Issuing of CDs to students has been started.
- 5 more computers have been added to provide internet facility to students.
- 4 library staff members attended workshops / seminars.

22. New books / journals subscribed and their value:

- Books 2910 --- Rs. 18,03,521/-
- Journals --- Rs. 3,46,443/-
- (a) International classification and computerized access to books (b) Induction program for new students to introduce library system and its usage. (c) Top 20 borrowers scheme in which top 10 borrowers are given extra borrowing book facility. (d) Online journals access to students & staff. (e) Access to **NPTEL** Video lecture series.

23. Courses in which student assessment of teachers is introduced and the action taken on student feedback:

- The college has established a mechanism to get the students' feedback about the performance of teachers, every semester. This is done through a questionnaire, answered by students. To maintain the confidentiality, the feedback form does not contain name / roll number of the student.

24. Unit cost of education:

- (Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)
 - (a) Including the salary Component = Rs.78978/-
 - (b) Excluding the salary component = Rs.34472/-

25. Computerization of administration and the process of admissions and examination results, issue of certificates:

- Computerized administration processes are already in use.

26. Increase in the infrastructural facilities:

- Activities of the Computer and I. T. Departments have been enhanced by adding 42 new PCs in Computer Dept. and 10 PCs in I. T. Dept.
- A new Mechatronics lab has been added in Mechanical Dept.

27. Technology Upgradation :

- New software "ANSYS" has been purchased for Mechanical Dept.
- We have provided centralized MATLAB Server facility to all the departments.
- Total 139 licensed copies of MATLAB has been purchased.

28. Computer and internet access and training to teachers and students:

- We have 12 Mbps leased line with fiber optic connectivity.
- Computer and internet access is provided to teachers and students. A secured wi-fi facility is also provided in hostel and in the building of Mechanical Engineering Department.

29. Financial aid to students:

- Scholarships : 52 students Rs.159960/-
- Aid : 17 students Rs.350000/-

30. Activities and support from the Alumni Association:

- Cummins College of Engineering for Women organized Alumnae meet in the academic year 2010-2011 on 2nd Jan '2011 evening in college premises (quadrangle). All the alumnae from all the departments were invited for the meet. Alumnae visited their departments and were happy to see the developments in the departments. They shared their college experiences with the current students. The alumnae meet consisted of various entertainment shows like dances, experience sharing for Alumnae, honor awarding function for the once who are at the higher post, achievements if any etc. This was followed by dinner which everyone enjoyed. All the alumnae interacted with their staff and the junior students of their departments.

31. Activities and support from parent-teacher Association:

- There is no formal parent teacher association, however, a feedback from parents is collected occasionally in the prescribed format, analyzed and used for further development.

32. Health services:

- Lady medical practitioner is available on the campus for 24 hours.
- The college has established a tie-up with Deenanath Mangeshkar Hospital for concessional treatment to all the employees and students.
- A health club / Modern Gym. Facility is made available in the campus to all the students.

33. Sports activities:

- 203 students participated in various sports activities and won prizes.
- Our students are winners of table-tennis tournament in Pune City Zone, won second place in volleyball, won in third place in football & handball.
- At Pune University level, our students won second place in volleyball and swimming and they were winners for table tennis and football.
- Our students participated in football and table tennis tournaments held at Jiwaji University, Gwalior and Gaur University at Saga, in Madhya Pradesh.

34. Student achievements and awards:

- Passing percentages of final year students

	B.E. E & Tc	B.E. Comp	B. E. Instru	B.E. Info. Tech	B. E. Mech
Passed	95.86 %	94.44 %	95.59 %	91.78 %	89.23 %
With First class	39.31 %	43.75 %	25.00 %	43.83 %	47.69 %
First class With Distinction	41.37 %	28.47 %	69.11 %	27.39 %	33.84 %

- Rank holders (top 10) in the University Examinations --- 06
- Number of papers presented by students --- 38
- Number of students participated in technical events --- 63

35. Activities of the Guidance and Counseling unit:

- Students who do not pass the written tests and interviews during the campus recruitment are counseled by experts and faculty members.

36. Placement services provided to students:

- The college has separate Training & Placement Cell with full time Training & Placement Officer and a Clerk. The Cell provides training in communication skills, interview technique, group discussions etc. Number of students placed through campus recruitments is 296 out of 420.

- A separate Training and Placement office adjacent to conference hall has been provided, with internet facility and with separate cabins for conducting interviews, counseling etc. The conference hall is used by the interview committees for initial address.
- Mr.Mohit Gundecha, Mrs.Hema Sharda, Mr.Atul spoke on higher education in USA, Australia and higher education in Management sciences, respectively.
- Students who do not pass the written test & interviews during the campus recruitment are guided by Faculty, TPO, and Subject Experts & HR Managers.
- Guest Session on how to appear for the interview were arranged.
- Students were evaluated on their performance in Written Test, GD, Interview and were counseled one to one on the steps they should take to improve their performance in Written Test, GD, Personal Interview & Technical Interview.
- Bio data of all the students are individually checked and students are helped in preparing for the personal interview on one to one basis.

Number of students placed during 2010-11 are as under.

Branch	No. of student /branch	Students Placed/branch	Current % Students Placed
E & Tc	120	82	68.33
Instrumentation and Control	60	36	60
Mechanical	60	36	60
Computer Engg	120	99	82.5
IT	60	43	71.67
Total	420	296	70.47

37. Development programs for non-teaching staff:

- 4 supporting staff members have undergone training in Personality Development, English conversation, computer training.

38. Healthy practices of the institution:

The College always promotes the best practices such as,

- Regular feedback from students
- Multimedia classrooms and laboratories. All the classrooms have been equipped with audio, video, internet, LCD facilities.
- Memberships of professional bodies : The faculty and students membership, subscription borne by the college for few members every year.

- (a) International classification and computerized access to books (b) Induction program for new students to introduce library system and its usage. (c) Top 10 borrowers scheme in which top 10 borrowers are given extra borrowing book facility. (d) Online journals access to students & staff. (e) Access to NPTEL Video lecture series.
- Special classes for improving English and Communication skills especially for rural students were conducted.
- College magazine and departmental newsletter were published as usual.
- Encouragement to teachers and students has been continued for conducting and attending conferences / seminars / workshops and writing papers in Journals.
- Encouragement for students to participate in extracurricular activities such as sports, cultural etc. for all-round development.

39. Linkages developed with National / International, academic / Research bodies:

- **Cummins India Ltd (CIL):** continued to support the college in various departmental activities.
- **KPIT-Cummins Ltd:** In 2010, the Institution has signed Mou with "KPIT-Cummins Ltd." To have facilities in the areas of teaching, training and research for the departments (i) Electronics Telecommunication (ii) Computer Engineering and (iii) Information Technology.
- **Persistent Systems Ltd:** In 2009, the College has signed MoU with Persistent Systems Ltd. & further continued to collaborate in undertaking projects and activities related to teaching, training and research in the fields of Computer Engineering and Information Technology.

40. Any other relevant information the institution wishes to add:

- Every department, every year, declares name of a student as "Best Outgoing Student".
- For final year students "Best Project Award" is instituted in every department.
- Students are encouraged to present technical papers in various seminars / conferences and awards are given to "best papers".
- Awards in the form of Gold Medals are instituted for students showing best overall performance in University Examinations of Second, Third and Final years.
- Another Gold Medal award is instituted for a student showing best performance in various sports events.
- All the points stated above, develop conducive atmosphere for learning.

PART – C

It was decided by the Development Committee (IQAC) that activities planned last year for overall improvements will be continued for the year 2011-12. Emphasis will be given on the following points.

- Encouragement to faculty members for registration to higher studies (ME / Ph. D) by offering paid study leave for 2 years.
- To purchase some more PCs for the benefit of Computer Engineering students.
- To increase teacher : students ratio. Additional faculty members will be recruited which will result in improvement in overall teaching.
- To increase the faculty participation in different workshops / conferences / seminars.
- To follow the system of continuous assessment of term work and laboratory sessions, developed this year, to increase overall attendance and sincerity of the students.
- To increase the employability of students, the concept of finishing school will be introduced.
- Encouragement to faculty members to publish more and more research papers in international journals and conferences.
- Encouragement to faculty members to submit project proposals to AICTE and other funding agencies.

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