

The Annual Quality Assurance Report (AQAR) of the IQAC 2010-2011

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PART A: The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year.

Action Plan for session 2010-11

- To widen the horizon of Engineering Degree Programs by opening specialization courses in each department.
- The Core Courses form a unique innovative feature of DEI. In order to promote these courses by constant upgradation and review, it is proposed to establish a Core Course Center in the Institute.

Outcome of planned activities achieved in the session.

- In order to widen the horizon of Engineering Degree Programs the following specializations have been introduced in the two branches.
- In Electrical branch of B.Sc. Engineering the following specializations have been introduced:
 - Computer Science
 - Electronics
- In Mechanical branch of B.Sc. Engineering the following specializations have been introduced:
 - Computer Science
 - Industrial Engineering.
- A Core Course center has been established in a magnificent and spacious Hall in the Research and Technology Park. A display of charts and models is made on the walls to motivate and emphasize the importance of all core courses and space provided for lectures, seminars and colloquia.

PART B:

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

- To take up Campus uplifting in terms of student facilities and campus beautification.
- To open Core Course Centre.
- To take up Bar Coding of books in all faculty libraries.

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

- Started M. Phil. (Economics), M. Phil. (Pol. Sc.), M. Phil. (Sociology), M. Phil. (Theology). M.Sc. Engineering (Elect.).
- Opened Specializations in Electronics and Computer Science for B.Sc. Engineering. Students of Electrical Engineering and in Industrial Engineering and Computer Science for Mechanical branch.

3. Innovations in curricular design and transaction:

- Review letter grades and to introduce E & E- grades.
- Introduce MBA in Distance Mode.

4. Inter-disciplinary programmes started:

- Department of LLLE started PG Diploma in Safety Health and Environment in collaboration with Departments of Chemistry, and Mechanical Engineering.

5. Examination reforms implemented:

- Modified letter grading to suit the DEI System by adding E & E- grades. This has become necessary because DEI has 25% external evaluation component and the final result is the sum of the two.

6. Number of Candidates, who have qualified in : NET/SLET/GATE etc.

- NET : 29, GATE : 58

7. Initiating faculty development programs:

- Course on ANDROID Programming offered for staff and students.
- Management Development program- Short course run by Dr. K. Santi Swaroop and Mr. V. Prem Swaroop.
- AADEIs conducted the following courses.
 - Tally-ERP9 Programming
 - Soft skills
 - UNIX Programming

8. Total number of seminars/workshops conducted:

- 25 (International : 1)

9. Research projects:

- Newly implemented : 09
- Completed : 14

10. Patents generated, if any:

- 02

11. New collaborative research programmes:

- Michigan State University – Bio-inspired System collaboration.
- Linkage established with Christian Albrecht Universitat, at KEIL in Germany.

12. Research grants received from various agencies:

- Rs. 1000.37 lacs

13. Details of research scholars:

- 303

14. Citation index of faculty members and impact factor:

• Dr. Sahab Das Kaura	Chemistry	IF=3.4	CI=15
• Dr. Anita Lakhani	Chemistry	IF=1.684	CI=10
• Dr. J.N. Srivastava	Botany	IF=2.32	CI=01
• Dr. Prem Kumar Dantu	Botany	IF=2.09	CI=02
• Dr. G.P. Satsangi	Botany	IF=1.19	CI=02
• Dr. Kamal Srivastava	Mathematics	IF=1.28	CI=01
• Dr. Sampada Shrivastava	Mathematics	IF=1.25	CI=01
• Dr. Dhaneshwar Pandey	Mathematics	IF=1.88	CI=07

15. Honors/Awards to the faculty:

- Dr. Soami Pyari Kaura (Hindi) was conferred with 'Late Dr. Narayan Swarup Pratibha Samman 2010' by Sangeet Sangam Literary and Cultural Association, Agra on 14.11.2010.
- Prof. Aditya Prachandia (Hindi) is nominated on the Editorial Board of International Research Journal, 'Shodh Disha'.
- Dr. Kavita Raizada (Science faculty Office) was conferred with several awards as follows:

- “Woman of the East” award at 6th AIPC Conference in Tashkent on 30.11.2010.
 - “Sahitya Ratna Samman-2010” by Prerna Sahitya Sanstha, Chattisgarh on 30.10.10
 - “Lok Ratna Rashtriya Puraskar-2010” by Akhil Bharatiya Kala Sahitya Sanskriti Academy on 23.10.2010.
- Dr. Sandeep Paul (Physics & Comp. Sc.) received ‘Young Systems Scientist’ Award by System Society of India at NSC 2010 held at NITK, Suratkal, on 10.12.2010.

16. Internal resources generated:

- Rs. 15,49,019

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

- SAP : Electrical Engineering, Music, Physics & Computer Science, Chemistry
- FIST : Physics & Computer Science, Chemistry, Zoology, Mechanical Engineering, Electrical Engineering

18. Community services:

- Free Medical Camps held in neighboring villages every fortnight by NSS.
- NSS camp in adopted villages to teach how to keep surroundings clean and pollution free and also started ‘Hole in the Wall’ program in villages around DEI to familiarize students with computers.

19. Teachers and officers newly recruited:

- Teachers: 1, Officers:2

20. Teaching – Non-teaching staff ratio:

- Teaching staff =184, Non teaching staff =233 Ratio= 1:1.27

21. Improvements in the library services:

- OPAC facilities provided.
- Subscription of Print journals increased from 148 to 160.
- Faculty Library books also bar coded.

22. New books/journals subscribed and their cost:

- New Books : Number : 1505, Cost : Rs. 6,98,532/-
- Journal subscription : Rs. 12,31,524/-

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

- Student feedback on Teachers and teaching methods is introduced in all courses in DEI. Feedback is also obtained through Class committee meetings and meetings of AAAC. The Heads of Departments counsel the concerned teachers.
- Some bright students of B.A. (Social Science) complained about a new teacher, Dr. Rupali, that she is some times confused while teaching the intricate topics of Economics. The Head of Department counseled her to study the subject deeper and appear in some National level test like 'NET'. The teacher accepted the suggestion.

24. Unit cost of education:

- Rs. 72,887 per year

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

- An in-house ERP development cell has been constituted to computerize all administrative, financial and academic functions of the Institute under Mr. P.S. Sudhish and Prof. Gur saran. Software has been developed for Computerization of Institute Asset register which has passed testing phase and is now implemented.
- A Web site, 'VIDYA PRASAR' has been launched for giving ON-LINE courses open to all students of DEI and also open to any Indian Citizen who wishes to learn free of cost. Several class room lessons in the area of Computer Science, Mechanical Engineering and Physics have been uploaded.
- TALLY-ERP9 training program conducted for staff of Accounts section by AADEIs.
- The Institute developed own software for computerization of student admissions, Registration, and keeping a record of marks and for final submission of marks of internal evaluation in an integral package. This software is being tested in parallel with our old system in the faculty of Education and on some P.G. Classes for eventual implementation after successful trials.

26. Increase in the infrastructural facilities:

- The following additions and extensions were made during the year in buildings by the Institute:
 - Battery Rooms built in Engineering, USIC and CAO for Solar Power generation and 515 KWp Solar Generation facilities fully installed.
 - Extension of Education Faculty Library made.
 - Two new Labs, one for Pharmaceutical Chemistry and second for Bio-technology have been constructed and fully equipped. A room has been modified to accommodate the lab of Atmospheric chemistry.

27. Technology up-gradation:

- Web Portal 'Vidya Prasar' launched.
- Polycom Core advanced Video Editing Facility installed.
- Atomic Force Microscope & Z-Scan System installed.
- 50 GHz Frequency Counter & Power meter acquired.

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

- All Hostels provided with computers, printers and internet enabled through LAN.
- AADEIs offers courses on UNIX and Computer Networking.

29. Financial aid to students:

- Number of Students benefitted : 209
- Total Scholarship amount : Rs. 6,97,734/-

30. Support from the Alumni Association and its Activities:

- Mrs. Poonam Prakash, Coordinator of short courses on behalf of AADEIs, has organized the following short courses:
 - Soft Skills
 - Computer Skills
 - Networking
 - UNIX
 - TALLY-ERP.9
 - Spoken English
- AADEIs has given Rs. 25.0 lacs for organizing the International seminar, 'SPIRICON'.
- The Alumni living in USA have registered a society called, "Association of Alumni and Friends of DEI" (AAFDEI) to support the academic activities of DEI.

31.Support from the Parent-Teacher Association and its Activities:

- The Institute holds OPEN HOUSE on 31st January every year, which is celebrated as Founder's day. The parents are invited to visit the Institute and meet the teachers where their views are taken into consideration.

32.Health service:

- The Saran Ashram Hospital run by The Dayalbagh Medical Relief Society, which is a non-profit sister organization of DEI, has full fledged medical facilities and give their services, medicines and tests free of cost.
- The NSS Unit of DEI holds free medical camps in the neighboring villages every fortnight with the help of Dayalbagh Medical Relief Society.

33.Performance in sports activities:

- Regular coaching of Football and Volley Ball started in July and continued upto mid October, while Hockey and Cricket were played from October onwards.
- Competitions of Races, Throws and jumps were organized in January.
- University level sports meet for students with disabilities was organized from 3rd to 8th March, 2011.
- Under the aegis of Ministry of Youth Welfare and sports, a public Sports meet was organized for the Disabled youth in DEI on 28.2.2011 with an overwhelming response.
- The students of DEI (Shiv Pratap Singh, and 4 others) were selected in the Agra District team and participated in the UP Cricket Tennis Ball Championship held at Varanasi held from 16th to 17th Feb., 2011 and this team won the Championship.

34.Incentives to outstanding sportspersons:

- The Institute admission procedure provides for giving incentive of marks to candidates who have excelled in Sports and Games in deciding the merit.

35.Student achievements and awards:

- Km. Gunjan Jadaun of B.A. (Hons.) got "Hindi Poetess Award" from Sahityik Sanstha, AGRA on 11.9.2010.
- Km. Pooja Gautam bagged a cash award and Consolation prize in the All India Inter-University Sanskrit Debate Competition at Ujjain on 23.11.2010.
- Km. Kanika Khandelwal and Kn. Ayushi Agarwal shared the All India FIRST rank in the Company Secretary Examination of 2010.

- Km. Jubilee Raizada was awarded the 'Lok Ratana Rashtriya Puraskar 2010' for Classical Dance by Kala Sahitya Sanskriti Academy, Wardha on 20.11.2010.
- Dr. Adesh Pratap Singh was selected for Post Doctoral Research at the Institute of Inorganic Research, at Cologne, Germany in Nov., 2010. Though he belongs to scheduled caste, his performance in research led to several offers for Post Doctoral Research, including Princeton University in USA.
- Km. Bani Dayal received the 'Young Systems Scientist award 2011' by the System Society of India on 6.3.2011.

36. Activities of the Guidance and Counseling Cell:

- The cell for Psychological Counseling established in the Department of Psychology gives free guidance to students facing domestic and psychological problems.

37. Placement services provided to students:

- DEI APAC in collaboration with the Placement Officer and Faculty Placement Coordinators has canvassed with Corporate Heads to select DEI Graduates due to their values and quality of Training. The team faced difficulties because of slump in the job market.
- The campus placement in various courses in the session 2010-11 is as follows :

	Total number of students	Total number of students interested in job	Students Placed	% Placed
Engineering				
• Electrical	31	31	28	90%
• Mechanical	36	36	27	75%
Management	51	51	32	63%
Technical College				
Mechanical	52	52	41	79%
Electrical	56	56	21	38%
Automobiles	29	29	16	55%
Electronics				
• Boys	30	30	9	30%
• Girls	27	27	2	7%

38. Development programmes for non-teaching staff:

- Non teaching staff is given in-house training in Computer Skills and Tally.
- Staff is given permission to pursue higher courses in distance mode.

39. Best practices of the institution:

- The cost of Prospectus and Application form reduced to Rs. 40/- only and both are available free on Web. Candidates are permitted use Xeroxed copies as Application forms. This facility is introduced so as to enable financially weaker sections to meet the cost of application.

40. Linkages developed with National/International, academic/research bodies:

- DEI has signed an MoU with Michigan State University for collaboration in Research and Knowledge Sharing especially in the area of Bio inspired Systems.
- Prof. Ashok Agarwal of University of Maryland has conducted a course on 'Operating Systems' and another on 'Computer Networks' in the two semesters of the year.

41. Any other relevant information:

- Nil

PART C: Detail the plans of the institution for the next year.

Action Plan for session 2011-12

- ❖ To file application for reaccreditation to NAAC.
- ❖ To draft VISION-2031 program.
- ❖ To reserve 15 seats in B.Sc. Engineering (Elect.) for admission to girls.
- ❖ To start Civil Engineering Diploma and Architecture Assistant programs.

Name & Signature of the Coordinator, IQAC

Name & Signature of the Chairperson, IQAC