

ASSESSMENT STATUS REPORT OF UTD

Name of the School: School of Biochemistry

Year of Report: **2009-2010**

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.

The plan of action for the year 2008-2009 was successfully achieved. The measures taken for quality assurance and self analysis showed positive results in the development of academic and research activities of the department. The faculty members motivated the students for research and to achieve excellence in academics. The research potential of students has shown positive results in the form of research publications in reputed journals.

Suggestions were encouraged from students for quality improvement in the field of academics, research and extracurricular activities.

Department worked with a goal to provide best possible knowledge in the field and for the overall development of the students through regular teaching and discussion with them.

Regular updating of the course contents for advanced knowledge of various topics was done by the concerned teachers.

Feedback from students was routinely taken, analyzed and implicated for updating and development.

Part B:

01	Activities reflecting the goals and objectives of the institution	Regular teaching with teaching aids Syllabus coverage in details Promotion of research activities
02	New academic program initiated (UG and PG)	None
03	Innovations in curricular design and transaction	Syllabus of computer application paper has been revised and upgraded.
04	Inter-disciplinary programmers started	Biostatistics and Computer Applications papers already existed
05	Examination reforms implemented	Open system was followed as earlier. In this evaluated answer sheets were shown to the students.

06	Candidates qualified NET/SLET/GATE etc.	Seven of the students qualified GATE & three qualified NET.
07.	Initiative towards faculty development programme	Dr. M. Jain, Sr. Lecturer attended the National seminar on New Biology and Plant Engineering, held on December 01-02, 2009 at School of Life Sciences, Jaipur national University, Jaipur (Oral presentation) Dr. S. M. Gokhale visited ACTREC, Mumbai for research experimentation.
08	Total number of seminars/workshops conducted	<p>MPCST sponsored two guest lectures were organized by Dr. D. Bhatnagar, Professor of Biochemistry, Coordinator MPCST. Speakers were as follows:</p> <ol style="list-style-type: none"> 1. Dr. Vineet Kumar Sr. Scientist, from Directorate of Soybean Research, Indore delivered a talk on the topic “Vegetable oil: Current Issues, Nutraceutical, and Research Challenges” on 18.03.2010. 2. Dr. Anita Rani, Principal Scientist, from Directorate of Soybean Research, Indore delivered a talk on the topic “GMOs in Agriculture” on 26.03.2010. <ul style="list-style-type: none"> • Essay competition was held for the students by the support of Madhya Pradesh Council of Science and Technology (MPCST) Bhopal. The competition was open for science students of Devi Ahilya University and its affiliated Colleges. • The science quiz was organised at the school of Biochemistry. • Best Science Research Award. The applications were called for the Best Science Research Award among the students and teachers category. Sh. Amit Kumar Dixit, School of Biochemistry, DAVV, Indore was selected for Best Science Research Award in Biological Sciences. • National Science Day was celebrated in the department. • EPCO sponsored National environment Awareness Campaign (2009-2010) was conducted by Dr. Meeta Jain. Lectures, Pamphlets distribution, Plantation, Essay and Slogan competition were organized in the department and schools. Dr. Dilip Waghela, Scientist, M.P. Pollution Control Board delivered a lecture.
09	Research projects a)Newly implemented b)Completed	<ol style="list-style-type: none"> 1) Newly implemented: UGC Major Research Project entitled “Radioprotective effect of dietary constituents against gamma irradiation induced oxidative stress” under Dr. Deepak Bhatnagar. Grant- Rs. 8.71 Lakhs. (2009-2012). 2) UGC Major Research Project entitled “Characterization of structural features and interactions of erythrocyte membrane proteins of some non-human mammals” under Dr. S.M. Gokhale

		<p>Grant- Rs. 6.20 Lakhs. (2010-2013).</p> <p>3) MPCST Research Project entitled “Osmotic stress- induced changes on chlorophyll metabolism and antioxidative system in maize leaves” under Dr. Meeta Jain. Grant- 3.90 Lakhs (2010-2013).</p> <p>b) Completed: One Minor Project UGC, 1 lakh, “A study on key enzymes of chlorophyll metabolism in relation to selenium in maize leaves.” Dr. M. Jain.</p>																										
10.	Patents generated if any	None																										
11.	New collaborative research program	<p>One-to-One Research Collaboration</p> <p>Dr. R. Gadre working in collaboration with Dr. Vineet Kumar, NRCS, Indore</p> <p>Dr. D. Bhatnagar working in collaboration with Dr. Vineet Kumar, NRCS, Indore Dr. (Mrs) Kaiser Jamil, Head, Genetics Dept., Bhagwan Mahavir Med. Res. Centre, Hyderabad Dr. Pravendra Nath, Dy Director, Head, Plant Gene Expression Lab, National Botanical Res. Inst, Lucknow. Dr. Jawaid Khan, Professor, Jamia Milia Islamia University, New Delhi. Dr. S.M. Gokhale working in collaboration with Dr. Surekha Zingade, Dy Director, ACTREC, Mumbai Dr. Meeta Jain worked in collaboration with Dr. A. S. Raghvendra, Dept. of Plant Sciences, University of Hyderabad, Hyderabad Dr. Sai Prasad, Senior Scientist, IARI Regional Station Indore.</p>																										
12.	Research grants received from various agencies	Rs 8.71 + Rs. 6.20 + Rs. 3.90 = 18.81 Lakhs																										
13	Details of research scholars	<table border="0"> <thead> <tr> <th>Name of Scholar</th> <th>Supervisor</th> </tr> </thead> <tbody> <tr> <td>Mr. K. Shivshankar</td> <td>Dr. D. Bhatnagar</td> </tr> <tr> <td>Mr. Amit Dixit</td> <td>Dr. D. Bhatnagar</td> </tr> <tr> <td>Mr. Abhinav Kumar</td> <td>Dr. D. Bhatnagar</td> </tr> <tr> <td>Ms. Ritu Tyagi</td> <td>Dr. D. Bhatnagar</td> </tr> <tr> <td>Ms. Deepti Bhatnagar</td> <td>Dr. D. Bhatnagar</td> </tr> <tr> <td>Ms Juliana Sarenthem</td> <td>Dr. Rekha Gadre & Dr. Meeta Jain</td> </tr> <tr> <td>Mr. Lokesh Goyal</td> <td>Dr. R. Gadre</td> </tr> <tr> <td>Ms Savita Sharma</td> <td>Dr. S.M. Gokhale</td> </tr> <tr> <td>Mr. Ankit Kelotra</td> <td>Dr. S.M. Gokhale</td> </tr> <tr> <td>Mrs Swati Tiwari</td> <td>Dr. Meeta Jain</td> </tr> <tr> <td>Mrs. Seema Kelotra</td> <td>Dr. Meeta Jain</td> </tr> <tr> <td>Mr. Prakash Malviya</td> <td>Dr. Meeta Jain</td> </tr> </tbody> </table>	Name of Scholar	Supervisor	Mr. K. Shivshankar	Dr. D. Bhatnagar	Mr. Amit Dixit	Dr. D. Bhatnagar	Mr. Abhinav Kumar	Dr. D. Bhatnagar	Ms. Ritu Tyagi	Dr. D. Bhatnagar	Ms. Deepti Bhatnagar	Dr. D. Bhatnagar	Ms Juliana Sarenthem	Dr. Rekha Gadre & Dr. Meeta Jain	Mr. Lokesh Goyal	Dr. R. Gadre	Ms Savita Sharma	Dr. S.M. Gokhale	Mr. Ankit Kelotra	Dr. S.M. Gokhale	Mrs Swati Tiwari	Dr. Meeta Jain	Mrs. Seema Kelotra	Dr. Meeta Jain	Mr. Prakash Malviya	Dr. Meeta Jain
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14.	Citation index of faculty members and impact factor	Dr. D. Bhatnagar Average Impact Factor 2.5
15	Honors/Awards to the faculty	Nil
16	Internal resources generated	Departmental Fees
17.	Details of departments getting SAP ,FIST, etc assistance/recognition	None
18.	Community services	None
19.	Teachers and officers newly recruited	Nil
20.	Teaching-Non-teaching staff ratio	1:1.5
21.	Improvements in the library services	New Books Added
22.	New books/journals subscribed and their Value	Books 125000/-
23.	Courses in Which Student Assessment of Teachers is introduced and the action taken on student feedback.	M.Sc. Biochemistry Course Students' Feedback was analyzed. Overall rating about the department and teachers was very good.
24.	Unit Cost of Education. Unit cost = total annual expenditure budget (Actual) divided by the number of students enrolled.	65000/- including salary component 22000/- excluding salary component
25.	Computerization and Administration and the process of Admissions and examination, result issue of certificates.	To some extent
26.	Increase in the infrastructural facilities.	Upgradation of laboratories with equipments, new instruments such as Sorvall Ultracentrifuge and Spectrophotometer were purchased.
27.	Technology up gradation.	Networking facility through IT center with one switch and eleven functional nodes, Computers and LCD projectors are available.

28	Computer and internet excess and training to teacher and students.	Yes
29.	Financial aid to students.	Nil
30.	Activities and support from the Alumni Association.	None
31.	Activities and support from the parent Teacher Association.	None
32.	Health Services.	None
33.	Performance in support activities.	Students participated in Inter School Sports Activities
34.	Incentives to outstanding sports persons.	None
35.	Students Achievements and awards.	3 students qualified NET and 7 qualified GATE
36.	Activities of the Guidance and Counseling Units.	Regular discussion with students to encourage and guide them.
37.	Placements services provided to student.	Campus test conducted by Biocon India Ltd.
38.	Development programmes for Non- teaching staff.	None
39.	Healthy practices of the institution.	Regular and quality teaching Active participation in research activities Departmental harmony in working For quality assurance, self analysis and feedback from students was practiced.
40.	Linkages developed with National/ International, Academic/Research bodies.	One-to-one research collaborations exist.
41.	Any other relevant information the institution wishes to add	Department works for the overall development of the students through regular teaching and discussion with the students.

Part C: Detail the plans of the institution for the next year:

Yearly Plan for 09-10

Curriculum

The curriculum designing of the course is balanced and broad based for its applicability to other disciplines which require biochemistry background.

The syllabus will be revised to include recent knowledge in various topics

Strategies of teaching learning

Mainly through lecturing aided by OHP and LCD for demonstration

Student feedback system design

Students' feedback about department, faculty and course will be practiced as per IQAC design

Collection of feedback and its analysis; Format of analysis

Feedback will be collected every year by 15th December for all the three Semesters from the students and will then be analyzed by the faculty members by 1st week of January. The overall report considering various points will be prepared and necessary improvements will be done for the coming year.

Improvement plan

Infrastructure

- Construction of seminar hall, two research Labs and Faculty rooms is under way.

Research activities & promotion

- To strengthen research activities research projects in the working fields will be submitted to various funding agencies.
- Collaborative research activities will be promoted.
- Faculty participation in Seminars, Conferences and visit to developed departments will be encouraged.

**Name & Signature of the
Coordinator QAC**

**Name & Signature of the
HEAD, UTD**