

ASSESSMENT STATUS REPORT OF UTD

Name of the School : School of Mathematics

Period of Report: July 2012- June 2013.

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 (Point wise) was as follows:

1. Curricular aspect:

Devoting first few weeks to strengthen basics of M.A/M.Sc I semester students
Revision of course contents by introducing relevant material from new text books ,
providing e-references so that students get access to relevant material.
Encouraging bright students to participate in advanced training programmes conducted by the National Board for Higher Mathematics

2. Teaching – Learning:

Encouraging faculty to attend conferences/workshops/seminars to update knowledge.
Encourage student participation while teaching .

3. Research ,consultancy and extension :

Apply for research projects

4. Infrastructure and Learning Resources:

Improving Physical infrastructure , upgrading existing computer laboratory,
and purchasing new books.

5. Student support and Progression: Monitor student’s progress by rendering special assistance to weaker ones and encouraging good students strengthen their knowledge by sending them for training in advanced institutes.

6. Governance and Leadership : Taking all possible steps for smooth running of the department and maintaining harmony.

7. Innovative practices: Trying various methods to make learning Mathematics interesting.

Part B:

01	Activities reflecting the goals and objectives of the institution	Regular teaching & Syllabus coverage in detail
02	New academic program initiated (UG and PG)	None
03	Innovations in curricular design and transaction	Projects involving usage of Mathematical packages have been introduced.
04	Inter-disciplinary programmers started	None
05	Examination reforms implemented	Semester system was followed and the answer sheets were shown to the students after evaluation.
06	Candidates qualified NET/SLET/GATE etc.	One candidate has qualified GATE.
07.	Initiative towards faculty development programme	Encouraging faculty to take part in conferences/workshops/seminars
08	Total number of seminars/workshops conducted	Two 1.National workshop on “Linear Algebra & its applications” funded by National Board for Higher Mathematics(26-27 th Nov 2012)

	Participation in conferences/ workshops	<p>List of speakers:</p> <ul style="list-style-type: none"> • Rajendra Bhatia, Indian Statistical Institute (ISI), New Delhi. (Recipient of Bhatnagar Award) • Ravindra Bapat, Indian Statistical Institute (ISI), New Delhi. (Recipient of J.C. Bose Fellowship) • P. Bhimasankaram, Indian School of Bussiness (ISB),Hyderabad • Sk. Safiq Ahmad, Indian Institute of Technology (IIT), Indore. <p>2.On the occasion of 125th birth anniversary of Srinivasa Ramanujan (Mathematics Day), one day seminar on Analytical Number Theory on 22nd Dec. 2012 funded by Madhya Pradesh Council of Science & Technology.</p> <p>Speaker: Prof. N. Saradha, Tata Institute of Fundamental Research, Mumbai.</p> <p>3.Prof. Ivans Slapnicar, University of Split, Croatia delivered a lecture on “Fiedler Vectors” on 22nd January 2013.</p> <p>1.Dr. Mahesh Dumaldar has attended International Conference on Numerical Linear Algebra at IIT Guwahati in January 2013 2.Dr.K.N.Rajeswari has lectured at department of Mathematics Vikram University,Ujjain in National Mathematics day celebrations and chaired sessions in the National mathematics day celebrations of various colleges of the DAVV</p>						
09	Research projects a)Newly implemented b)Completed	None						
10.	Patents generated if any	None						
11.	New collaborative research program	None						
12.	Research grants received from various agencies	None						
13	Details of Research scholars	<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Name of Scholar</td> <td style="width: 33%;">Supervisor</td> <td style="width: 33%;">Status</td> </tr> <tr> <td>Mr. Naresh Berwal</td> <td>Dr. D.K. Panchal</td> <td>Pursuing</td> </tr> </table> <p>12 students have completed Ph.D course work in 2012-13.</p>	Name of Scholar	Supervisor	Status	Mr. Naresh Berwal	Dr. D.K. Panchal	Pursuing
Name of Scholar	Supervisor	Status						
Mr. Naresh Berwal	Dr. D.K. Panchal	Pursuing						
14.	Citation index of Faculty members and impact factor	<p><u>K.N.Rajeswari (with Rafia Aziz):-</u></p> <p>Uniquely Clean Idempotent 2x2 matrices over Integral domains International Journal of Mathematical Archive,vol.3(7),2012,</p>						

		<p><u>D.K. Panchal(with Naresh Berwal, C.L. Parihar):-</u></p> <ol style="list-style-type: none"> 1. Solution of wave-like equation based on Haar Wavelet, Le Mathematics Journal of pure and applied Mathematics and information science;Vol 67 (2) 2012 ,pp157-167. 2. Solution of L-C-R equation based on Haar wavelet, Italian Journal of pure and applied mathematics ,vol .29 ,no. 30 , 2013 ,pp157-166 . 3. Solution of Heat –like equation based on Haar wavelet, Journal of Rajasthan Academy of physical sciences ; Vol. 11. No. 3,2012 .pp 231-240. 4. HaarWavelet method for numerical solution of telegraph equation, Italian Journal of pure and applied Mathematics ;\Vol.30,2013,pp.317-328. 5. Solution of partial differential equation Based on Haar Wavelet, Accepted in Applicable Analysis and discrete Mathematics .
15	Honors/Awards to the faculty	Nil
16	Internal resources generated	Nil
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	1:2
21.	Improvements in the library services	Received several complimentary copies from National Board for Higher Mathematics (NBHM).
22.	New books/journals subscribed and their Value	
23.	Courses in which Student Assessment of Teachers is introduced and the action taken on student feedback.	<p>M.Sc. & M.Phil (Mathematics)</p> <p>Student’s Feedback was analyzed. Overall rating about the department and teachers was very good. Teachers take corrective measures taking feed back into account.</p>
24.	<p>Unit Cost of Education.</p> <p>Unit cost = total annual expenditure budget (Actual) divided by the number of students enrolled.</p>	Rs. 36,439
25.	Computerization and Administration and the process of Admissions and examination, result issue of certificates.	Computerised results and issue of certificates. Administration has been computerized to large extent.
26.	Increase in the infrastructural facilities.	
27.	Technology up gradation.	Networking facility through IT center, Computers and LCD projectors are available.
28	Computer and internet excess and training to teacher and	Yes

	students.	
29.	Financial aid to students.	Govt. aid is provided to SC/ST/OBC & Minority candidates.
30.	Activities and support from the Alumni Association.	Alumni try to extend their cooperation whenever required.
31.	Activities and support from the parent Teacher Association.	None
32.	Health Services.	Students are provided Health Centre facility by the University
33.	Performance in sports activities.	Students participated in Inter Departmental Sports activities.
34.	Incentives to outstanding sports persons.	None
35.	Students achievements and awards.	None
36.	Activities of the Guidance and Counseling Units.	Discussion with students and research scholars is held to provide information and to encourage them in various academic activities.
37.	Placements services provided to student.	Efforts are made to get information regarding placements and inform the students accordingly.
38.	Development programmes for Non- teaching staff.	None
39.	Healthy practices of the institution.	Regular and quality teaching Departmental harmony in working For quality assurance, self analysis and feedback from students was practiced.
40.	Linkages developed with National/ International, Academic/Research bodies.	Support from the National Board for Higher Mathematics exists
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 2013-2014

Purchasing inverter with 3hr backup.

- To strengthen research activities, encouraging faculty to apply for new research projects.
- Encouraging Faculty participation in Seminars, Conferences and visits to elite institutes
- Promote Collaborative research activities .
- Celebrate mathematics day by arranging expert lectures on 22 nd Dec'2013.

**Name & Signature of the
Coordinator QAC**

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