

## ANNUAL QUALITY ASSESSMENT REPORT

**Name of Institute:** SCHOOL OF STATISTICS, DAVV, INDORE

**Year of Report:** 2012-13

**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

<p>Curriculum Aspects</p>	<p>The curriculum designing has wide applicability to various disciplines, which require Statistical background</p> <p>Syllabus covers all the major areas of Statistics&amp;Mathematics including basic, advanced as well as specialized courses.</p> <p>The course includes theory, practicals as well as project work.</p> <p>Curriculum is updated from time to time. Last update was in 2012.</p> <p>Grade-Credit system is followed.</p> <p>Feedback is obtained from the students for all the courses.</p> <p>Intake of student of 30 per year.</p> <p>Recent advances in the field of Statistics are included in the course from time to time.</p> <p>The meetings of Board of Studies are regularly held for the upgradation of the Course as per the UGC Guidelines.</p> <p>Advertisement for the admission to the M.Sc. Course is done by publication in National dailies and is also available on the University Website. The admission is through an All India Entrance Examination and is on</p>
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	<p>merit in the entrance test plus B.Sc. % weightage, if any.</p> <p>For 2012-13 session, the admission process has taking place online through Common Entrance Test. CET 2012 was be held on 26-27 June 2012.</p> <p>Reservation for SC/ST/OBC are as per MP Government Policy. Generally 40-50 applications are received for 30 seats.</p>
Teaching Learning and Evaluation	<p>The School has 2 Faculty members (Prof 2, with specialization in the fields of Statistics</p> <p>All faculty members are Ph.D. in the subject.</p> <p>Teacher Student ratio is about 1:15</p> <p>Teachers are motivated to attend seminars, workshop.</p> <p><b>One Day Workshop Organised:</b></p> <p>(i)UGC supported One Day Workshop on “NATION BUILDING ROLE OF OFFICIAL STATISTICS IN INDIA: CREATING AWARENESS ABOUT CAREER OPPORTUNITIES” was organized on 5<sup>th</sup> March 2013.</p> <p><b>ii) Students selected for Exposure Program:</b></p> <p>Two students Ms Sristi Sharma and Ms, Ritu Agarwal were selected for and attended “ Exposure Program for PG students on Official Statistics” conducted by Ministry of Statistics and Program Implementation(MOSPI) at NASA ( National Academy of Statistical administration) , Delhi.</p> <p><b>(iii) Summer Internship with National Sample Surveys Office (Field Operations Division)(NSSO(FOD))(MOSPI):</b></p>

	<p>Three students Mr. Pawan Patidar, Mr. ankit Gorkhe and Mr. Lokesh Carpenter were selected for two month internship program by NSSO. They will be getting a stipend of Rs 5000/month during their internship.</p> <p>iv) One seminar on “Demystifying Statistics” by MOSPI (Ministry of Statistics and Programme Implementation, Govt of India) officials on 17 August 2012.</p> <p>(v) One Lecture on 2 May 2012 by Prof. Rajeeva L. Karandikar, Director, Chennai Mathematical Institute, Chennai on “Career opportunities in Statistics and Mathematics</p> <p>(vi) Prof. S.K. Pandey Department of Statistics Lucknow university one day invited lecture on 23 July 2012 at School of Statistics .</p> <p><b>(vii) Two Days Workshop on SPSS</b></p> <p>Dr. Akhilesh Singh &amp; Dr. Manohar Kapse has been invited for two days, 25-26 October 2013 Workshop on data analysis using SPSS as resource person organised by School of Statistics &amp; School of Future Studies.</p> <p>At present, 2 Research scholars are working in the department. A number of research papers have been published in the national as well as international journals, several students have been awarded doctoral degree and research projects are running successfully.</p> <p>The department strictly follows University academic calendar for the course.</p> <p>Teaching Method: School uses LCD projector, OHP and blackboard teaching.</p>
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	<p>Library: School has a well established departmental Library with latest editions of books. During about last one year, books worth Rs. 2.0 Lakhs were purchased from UGC XIth Plan Grant.</p> <p>There are 2 Professors (CAS) in the department. One post of Professor, 1 post of Reader &amp; 2 post of Lecturers are vacant. Additional 5 Faculty members (Guest Lecturers) are invited to teach interdisciplinary subjects of Statistics. All the faculty members use computer, Internet etc.</p>
<p>Evaluation Process and Reforms</p>	<p>Continuous and comprehensive evaluation process is followed which include 3 Class tests and Final examination in each semester.</p> <p>The evaluation of teachers by the students is in the form of feedback.</p> <p>The evaluation of the students takes place during the course. This includes 3 class tests followed by a final examination for each theory papers. Grades are awarded as per Ordinance 31. The students are shown the answer sheet after evaluation and the questions are discussed in the class. Best of 2 test are consider.</p> <p>The examination result is declared within 2-3 weeks of the examination. The current system of evaluation is in practice from 1991 and it has been observed to be very satisfactory.</p>
<p>Research, Consultancy and Extension</p>	<p>A project for M.Sc. III&amp;IV semester students is evaluated by the Board of examiners including one External examiner.</p> <p>For the Ph.D. programme, a University level Research Degree Committee evaluates the synopsis of candidates, who wishes to register for the degree.</p>

<p>Research and Publication output</p>	<p>List of Publications (2012-13)</p> <p><b>(i) Rashmi Awad and Dr. Shakti Banerjee:</b> “Some construction methods of variance and efficiency balanced block design with repeated blocks”, Research journal of recent Sciences,  ISSN 2277-2502, Vol.1 (9), 18-22, September (2012).</p> <p><b>(ii) Rashmi Awad and Dr. Shakti Banerjee:</b> A review of literature relating to balanced in complete block designs with repeated blocks, Research journal of Mathematical and Statistical Sciences, ISSN 2320-6047, Vol. 1(3), 23-30, April (2013).</p> <p><b>Dr. Snigdha Banerjee: July 2012- June 2013</b></p> <p><b>3 Ph.D Thesis submitted</b></p> <p><b>1. Ashish Sharme Oct. 2012</b></p> <p><b>2. Sanjib meitei Nov. 2012</b></p> <p><b>3. Swati Agrawal Feb. 2013</b></p> <p><b>Papers Published in International Journals:</b></p> <p><b>Awards/Honours</b></p> <p>1. Awarded with “Gaurav Patra by Hon’ble Governor Shri Ramnaresh Yadav of Madhya Pradesh at Rajya Stariya Shikshavid Samman Samaroh” held on 23 September 2012 jointly organized by Vishwa Bramhan Sangh and Indore Seva trust at Indore.</p> <p>2. Section President of Mathematical and Statistical Sciences section at Second International Science Congress (ISC II, 2012) organized by International</p>

	<p>Science Congress Association, held at Vrindavan 8, 9 December 2012.</p> <p>3. Judge for oral and poster presentations in the Mathematical and Statistical Sciences section, International Science Congress Association held at Vrindavan 8,9 December 2012 ISC II, 2012.</p> <p>4. Invited talk presented in the Mathematical Sciences section, International Science Congress Association held at Vrindavan 8,9 December 2012 ISC II, 2012.</p> <p>5. Two Invited lectures delivered on 5 December 2012 at refresher course on “organised by Academic Staff College, DAVV, Indore.</p> <p>6. N.Sanjib Meitei and Snigdha Banerjee: “ Joint Ordering and Pricing Policies for Newsboy Problem with Lead- Time and Declining Selling Price”, International Journal of Science , Technology and Management,1(1), Pp 20-29, ISSN 2250-0596</p> <p>7. Ningombam Sanjib Meitei and Snigdha Banerjee(29 Nov 2013) “Newsboy Problem: Viability Of Optimal Initial Selling Price And Ordering Policies In The Presence Of Exogenous Price Declineand Random Lead Time”, RAIRO Operations Research Vol 47 (4),Pp371–394, EDP Sciences, ROADEF, SMAI 2013, <b>Impact factor(2012) 0.237</b> , ISSN: 0399-0559 DOI: <a href="https://doi.org/10.1051/ro/2013044">10.1051/ro/2013044</a></p> <hr/> <p>8. Ashish Sharma and <b>Snigdha Banerjee</b> (2013) “Optimal Price Markup Policy for an Inventory Model with Random Price Fluctuations and Option for Additional Purchase”, International journal of Production Economics, online version 19 August 2013, <b>Impact factor 2.081</b>(2012)</p> <p>9. Swati Agrawal and <b>Snigdha Banerjee</b>, Sotirios Papachristos,(2013) “Inventory model with deteriorating items, ramp-type demand and</p>
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	<p>partially backlogged shortages for a two warehouse system”, Applied Mathematical modeling, Online version 2 may 2013, <i>Impact Factor (2012)</i> 1.706.</p> <p>10.Sunita Khurana and <b>Snigdha Banerjee</b> (2012) “CPM Analysis of Rolai-Rinjilai Road Construction”, <i>Research Journal of Recent Sciences</i> Vol. 2(ISC-2012), 1-6 ISSN 2277-2502</p> <p>11.N Sanjib Meitei and <b>Snigdha Banerjee</b> (2012) “Joint Ordering and pricing policies for newsboyproblem with lead time and declining selling price”. <i>International Journal of Science, Technology and Management</i>, ,Vol I(1) Pp 22- 29</p>
Infrastructure and Learning Resources	<p>School has a well established Departmental Library with latest editions of books. Recently books worth Rs. 2.0 Lakhs were purchased from UGC XIth Plan Grant.</p> <p>IT centre as learning resources: The University has IT centre which provide Internet facility to all the University Teaching Department.</p>
Student Support and Progression	<p>There are 20 and 09 students in M.Sc. Previous and Final year Statistics Course respectively. Govt. reservation policy is implemented as per rules.</p> <p>Job opportunities in academics and industry</p> <p>The syllabus of the course and other details are available on the departmental website.</p> <p>Students actively participated in annual UTD sports celebration. The School provided the sport kits for participation.</p>
Governance and Leadership	<p>Full academic autonomy.</p> <p>Faculty involved in Selection, Inspection of various colleges, Examination and Professional Development activities of the Universities.</p> <p>Examination results of the department are declared on time.</p>

<p>Innovative and best practices</p>	<p>An Internal quality assurance system has been developed for quality assurance and enhancement. To achieve this goal, there are regular meetings of the Faculty members within the department as well as at the University level.</p> <p>All efforts are made to implement suggestions from Faculty members and students for quality improvement.</p> <p>The students are shown the answer books and the questions are discussed in the class. The students have the opportunity to discuss the answers and clear doubts if any, with the Faculty members. Grades are awarded after the answer books are shown to the students.</p> <p>Internet facility is available to the students.</p> <p>Plantation has been undertaken by the Dept.</p>
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### **Evaluative report of the Department**

#### Faculty Profile

Number of Faculty members in position:

A) Professor 2 (CAS)

Name of the Faculty Member	Designation	Age
Highest Qualification Dr. Shakti Banerjee Ph.D.	Professor&Head	56
Dr. Snigdha Banerjee Ph.D.	Professor	55

Departmental Library with 1072 + books, 299+13 project report & 4 Ph.D Thesis ,24x7 Internet, Multimedia/ LCD in classrooms and full power back up in the laboratories/class rooms.

#### **. Plan on improvement:**

**1.To popularise the M.Sc.(Statistics) course so that we get more number of students in the school.**

**2.To increase the number of ph.d students in the school.**

**3.Encourage more students to participate in Indian Statistical Service,NET , State level examinations on Public Service,Research in good international journals with high impact factor.**

**4.More training on SPSS and SAS softwares.**



**(Dr. Snigdha Banerjee)**

**Name & Signature of the  
the  
Coordinator IQAC  
Statistics  
School of Statistics**

**(Dr. Shakti Banerjee)**

**Name & Signature of  
Head, School of**