EVALUATIVE REPORT
Department of Statistics

1. Name of the Department - Statistics
2. Year of Establishment - 1963
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) - U.G.
4. Names of Interdisciplinary courses and the departments/units involved - N.A.
5. Annual/ semester/choice based credit system (programme wise) - U.G.-Annual
6. Participation of the department in the courses offered by other departments - N.A.
7. Courses in collaboration with other Universities Industries, Foreign Institutions, etc. - N.A.
8. Details of courses/programmes discontinued (if any) with reasons - N.A.
9. Number of Teaching posts -

<table>
<thead>
<tr>
<th></th>
<th>Sanctioned</th>
<th>Filled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professors</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Associate Professors</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Asst. Professors</td>
<td>02</td>
<td>02</td>
</tr>
</tbody>
</table>

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Designation</th>
<th>Specialization</th>
<th>No. of Years of Experience</th>
<th>No. of Ph.D. Students guided for the last 4 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Surbhi Singhal</td>
<td>M.Sc, M.Phil., Ph.D</td>
<td>Assistant Professor &amp; Incharge</td>
<td>Inventory Modeling</td>
<td>02 years</td>
<td>-</td>
</tr>
<tr>
<td>Dr. Vishal Sharma</td>
<td>M.Sc, M.Phil., Ph.D</td>
<td>Assistant Professor</td>
<td>System Modeling &amp; Reliability</td>
<td>01 years</td>
<td>-</td>
</tr>
</tbody>
</table>

11. List of senior visiting faculty - NIL
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty - NIL
13. Student -Teacher Ratio (programme wise) - 75:01
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

<table>
<thead>
<tr>
<th>Posts</th>
<th>Sanctioned</th>
<th>Filled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Staff</td>
<td>01</td>
<td>Nil</td>
</tr>
<tr>
<td>Administrative Staff</td>
<td>01</td>
<td>01 (temporary)</td>
</tr>
</tbody>
</table>

15. Qualifications of teaching faculty with D.Sc/ D.Litt/ Ph.D/ M.Phil / P.G. –
- Ph.D - 02

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received
- NIL

17. Departmental projects funded by DST FIST; UGC, DBT, ICSSR, etc. and total grants received
- NIL

18. Research Centre /facility recognized by the University – No

19. Publications

* a) Publication per faculty

**DETAILS OF PUBLICATIONS BY FACULTY MEMBERS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Name of Co-Author</th>
<th>Name of Journal</th>
<th>Vol. No.</th>
<th>Page No.</th>
<th>Year</th>
<th>ISSN No.</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Surbhi Singhal</td>
<td>Optimal ordering policies with Pareto life time, Permissible delay in payment and stochastic backordering</td>
<td>S.R. Singh P.K. Gupta</td>
<td>International Transaction in Applied Sciences</td>
<td>Vol. 01</td>
<td>391-400</td>
<td>2009</td>
<td>0974-7273</td>
<td>Peer reviewed</td>
</tr>
<tr>
<td>Dr. Surbhi Singhal</td>
<td>Production model for decaying items with variable holding cost and partial backlogging</td>
<td>S.R. Singh Usha Sharma</td>
<td>International Transaction in Applied Sciences</td>
<td>Vol. 01</td>
<td>01-11</td>
<td>2009</td>
<td>0974-7273</td>
<td>Peer reviewed</td>
</tr>
<tr>
<td>Dr. Surbhi Singhal</td>
<td>Optimal Pricing and ordering policy of retailers with variable holding cost under delay in payment</td>
<td>S.R. Singh</td>
<td>International Transaction in Mathematical Sciences and Computer</td>
<td>Vol. 2  (1)</td>
<td>177-184</td>
<td>2009</td>
<td>0974-5068</td>
<td>Peer reviewed</td>
</tr>
<tr>
<td>Dr. Surbhi Singhal</td>
<td>Volume Flexible supply chain system with uncertain lead time and stochastic deterioration</td>
<td>S.R. Singh P.K. Gupta</td>
<td>International Transaction in Mathematical Sciences and Computers</td>
<td>Vol. 03</td>
<td>181-193</td>
<td>2010</td>
<td>0975-5068</td>
<td>Peer reviewed</td>
</tr>
<tr>
<td>Dr. Surbhi Singhal</td>
<td>A volume flexible inventory model for defective items with Multi-Variate Demand and Partial Backlogging</td>
<td>S.R. Singh P.K. Gupta</td>
<td>International Journal of Operation Research and Optimization</td>
<td>Vol. 01</td>
<td>55-69</td>
<td>2010</td>
<td>0975-3737</td>
<td>Peer reviewed</td>
</tr>
<tr>
<td>Dr. Surbhi Singhal</td>
<td>Volume flexible multi items inventory system with imprecise environment</td>
<td>S.R. Singh</td>
<td>International Journal of Industrial Engineering Computations</td>
<td>Vol. 04</td>
<td>457-468</td>
<td>2013</td>
<td>1923-2934 (Online)</td>
<td>Peer reviewed</td>
</tr>
<tr>
<td>Dr. Surbhi Singhal</td>
<td>Modeling of an inventory system with multi variate demand under volume flexibility and learning</td>
<td>S.R. Singh</td>
<td>Uncertain Supply Chain Management, 2015</td>
<td>Vol. 03</td>
<td>147-158</td>
<td>2015</td>
<td>2291-6830 (online)</td>
<td>Peer reviewed</td>
</tr>
<tr>
<td>Dr. Surbhi Singhal</td>
<td>Supply chain system for time and quality dependent decaying items with multiple market demand and volume flexibility</td>
<td>S.R. Singh</td>
<td>International Journal of Operational Research</td>
<td>---</td>
<td>---</td>
<td>2015</td>
<td>Acceped</td>
<td>Peer reviewed</td>
</tr>
</tbody>
</table>
Dr. Vishal Sharma
Profust Reliability and Profust Availability of Computer Communication Network
Prof. D. Pandey Prof. Rakesh Gupta Dr. Mukesh Sharma
Int. J. of Agricultural and Statistical Science
Vol.-03 (2) 431-439 2007 0973-1903 Peer reviewed

Dr. Vishal Sharma
A Two Non-Identical Unit standby system with Correlated working and rest time of repairman
Prof. Rakesh Gupta
J. of Combinatorics, Information and System Sciences
Vol. 32 (1-4) 241-255 2007 0250-9628 Peer reviewed

Dr. Vishal Sharma
Analysis of a Two-unit system model with the mixture of active and passive redundancies
Prof. Rakesh Gupta Dr. Pradeep Chaudhary
J. of Ravishankar University
Vol.-20 (B) 73-86 2007 0970-5910 Peer reviewed

Dr. Vishal Sharma
An operating orbit system with two dissimilar units in corresponding standbys
Prof. Rakesh Gupta Dr. Pradeep K. Sharma
J. of Statistics & Management Systems
Vol.-11 (1) 65-76 2008 0972-0510 Peer reviewed

Dr. Vishal Sharma
A two component two unit standby system with correlated failure and repair times
Prof. Rakesh Gupta Dr. Madhu Mahi
J. of Statistics & Management Systems
Vol.-11 (1) 77-90 2008 0972-0510 Peer reviewed

Dr. Vishal Sharma
The Stochastic Modelling and Analysis of a Milk Powder Making System in a Dairy Plant
Prof. Rakesh Gupta Dr. Gaurav Varshney
Aligarh J. of Statistics
Vol. 30 1-13 2010 0971-0388 Peer reviewed

Dr. Vishal Sharma
Cost Benefit Analysis of a Two Duplicate Unit Parallel System with Repair/Replacement and Correlated Lifetimes of Units
Prof. Rakesh Gupta Dr. Pradeep K. Sharma
J. of Rajasthan Academy of Physical Sciences
Vol. 9 (4) 317-330 2010 0972-6306 Peer reviewed

Dr. Vishal Sharma
A Two-unit standby System with preventive maintenance and Inverse Gaussian Repair Time Distribution
Prof. Rakesh Gupta
J. of Informatics & Mathematical Sciences
Vol. 2 (2&3) 183-191 2010 0975-5748 Peer reviewed

Dr. Vishal Sharma
Experiential Marketing: A Contemporary Marketing Mix
Dr. Rachna Sharma
Int. Journal of management and Strategy
Vol. II (3) 2010 2231-4070 Peer reviewed

Dr. Surbhi Singhal
EBSCO 3
SCOPUS 2
Directory of Open Access Journals (DOAJ) NIL
Compumath Citation Index®

Monographs NIL

Chapter in Books – Dr. Vishal Sharma 2

1. “Empower Women, Empower Nation” Published in a book titled “Empowerment through Education”
Co-author Mr. Prashant Kumar
Publisher Amega Publisher, Delhi
2. Hybrid Power Generation”: A key for Industrial Growth in Rural Areas

Books - Urbanization of Rural Areas.
Co-author - Ms. Meenakshi Chaturvedi
Publisher - ABD Publishers, Jaipur
ISBN No. - 978-81-8376-204-5

* Books Edited - NIL
* Books with ISBN/ISSN numbers with details of publishers - NIL
* Citation Index – Dr. Surbhi Singhal - 06

International Journal of Industrial Engineering Computations
SJR (2014) 0.586
IPP (2014) 1.072
SNIP (2014) 0.953

International Journal of Operational Research
SNIP (2015) 0.814
SJR (2015) 0.582
IPP (2015) 1.092

* Impact factor - NIL
* h-index - 02

20. Areas of consultancy and income generated - NIL

21. Faculty as members in
   a) National committees - NIL
   b) International Committees - NIL
   c) Editorial Board - NIL

22. Student projects
   a) Percentage of students who have done in-house projects including inter departmental/programme - N.A.
   b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies – NIL

23. Awards / Recognitions received by faculty and students – NIL

24. List of eminent academicians and scientists/ visitors to the department – NIL

25. Seminars/ Conferences/Workshops organized & the source of funding
   a) National - NIL
   b) International - NIL
26. Student profile programme/course wise:

<table>
<thead>
<tr>
<th>Name of the Course/programme (Refer question no.4)</th>
<th>Class</th>
<th>Applications received</th>
<th>Selected</th>
<th>Enrolled</th>
<th>Pass percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>*M</td>
<td>*F</td>
</tr>
<tr>
<td>B.Sc (Session 2010-11) Maths</td>
<td>I</td>
<td>900</td>
<td>377</td>
<td>294</td>
<td>83</td>
</tr>
<tr>
<td></td>
<td>II</td>
<td>237</td>
<td>237</td>
<td>139</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td>III</td>
<td>161</td>
<td>161</td>
<td>115</td>
<td>46</td>
</tr>
<tr>
<td>B.Sc (Session 2011-12) Maths</td>
<td>I</td>
<td>847</td>
<td>320</td>
<td>205</td>
<td>115</td>
</tr>
<tr>
<td></td>
<td>II</td>
<td>207</td>
<td>207</td>
<td>143</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>III</td>
<td>242</td>
<td>242</td>
<td>143</td>
<td>99</td>
</tr>
<tr>
<td>B.Sc (Session 2012-13) Maths</td>
<td>I</td>
<td>1010</td>
<td>321</td>
<td>233</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td>II</td>
<td>257</td>
<td>257</td>
<td>153</td>
<td>104</td>
</tr>
<tr>
<td></td>
<td>III</td>
<td>202</td>
<td>202</td>
<td>134</td>
<td>68</td>
</tr>
<tr>
<td>B.Sc (Session 2013-14) Maths</td>
<td>I</td>
<td>703</td>
<td>319</td>
<td>201</td>
<td>118</td>
</tr>
<tr>
<td></td>
<td>II</td>
<td>207</td>
<td>207</td>
<td>141</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td>III</td>
<td>271</td>
<td>271</td>
<td>165</td>
<td>106</td>
</tr>
<tr>
<td>B.Sc (Session 2014-15) Maths</td>
<td>I</td>
<td>693</td>
<td>317</td>
<td>203</td>
<td>114</td>
</tr>
<tr>
<td></td>
<td>II</td>
<td>254</td>
<td>254</td>
<td>142</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>III</td>
<td>204</td>
<td>204</td>
<td>139</td>
<td>65</td>
</tr>
</tbody>
</table>

* M = Male  * F = Female

27. Diversity of Students

<table>
<thead>
<tr>
<th>Name of the Course</th>
<th>% of students from the same state</th>
<th>% of students from other States</th>
<th>% of students from abroad</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.G.</td>
<td>98%</td>
<td>2%</td>
<td>-</td>
</tr>
</tbody>
</table>

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

- **NIL**

29. Student progression -

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U.G. to P.G.</td>
<td>-</td>
</tr>
<tr>
<td>P.G. to M.Phil.</td>
<td>-</td>
</tr>
<tr>
<td>P.G. to Ph.D.</td>
<td>-</td>
</tr>
<tr>
<td>Ph.D. to Post-Doctoral</td>
<td>-</td>
</tr>
<tr>
<td>Employed</td>
<td>-</td>
</tr>
<tr>
<td>• Campus selection</td>
<td></td>
</tr>
<tr>
<td>• Other than campus recruitment</td>
<td></td>
</tr>
<tr>
<td>Entrepreneurship/Self-employment</td>
<td>-</td>
</tr>
</tbody>
</table>
30. Details of Infrastructural facilities a) 
   a) Library -
      There is a library facility in the campus, located within the main building is spacious and well organized. It has sufficient books and offers a book bank facility for the benefit of students.
   b) Internet facilities for Staff & Students -
      Internet facility is available through Network Resource Centre.
   c) Class rooms with ICT facility - NIL
   d) Laboratories - YES

31. Number of students receiving financial assistance from College, University, Government or other agencies -
    Students receive scholarship and fee reimbursement as per state government rules.

32. Details on student enrichment programmes - NIL
    (special lectures/workshops/seminar) with external experts

33. Teaching methods adopted to improve student learning -
    Lectures delivered are based on suitable practicals examples from day to day life. The practicals are based on case studies.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities –
    Participated in NSS and other community events like programmes organized by Rotary Club or Nagar Kalyan Samiti to ensure their institutional social responsibility.

35. SWOC analysis of the department and Future plans-

   S (Strength) –
   Statistics department was established in 1963 running under-graduate course (B.Sc.) with a combination of Physics and Mathematics. There are two well qualified permanent faculties in this department. Statistics is a career oriented subject which can be applied in almost all fields of professional life, and so can be helpful in career building of our students.

   W (Weakness) –
   There is great need of a well equipped computer lab with some statistical software without which applications of the subject in different areas cannot be explained, as the case studies require analytical study.

   O (Opportunities) –
   As service sector of India is expanding day-by-day, the demands of professionals who are statistically sound also increasing accordingly. We can prepare our students to grab this opportunity in various fields.
like insurance, banking, KPOs, Marketing research companies, survey conducting organizations etc.

C (Challenges) –

A student who just passed his 12th is not aware about Statistics as a subject as well as its benefits and doesn’t mention Statistics as a subject of his choice in admission form. The challenge we face is to make the students aware about Statistics prior to their admission.

Future Plans:

We are planning to introduce M.Sc. program. Establishment of a departmental library is also listed in our plans which can be quite helpful in providing remedial coaching to final year students and preparing them for various competitive exams.

We are also planning to arrange guest lectures and career counseling classes on regular basis for the benefit of our students.