

Shri Shivaji College of Arts, Commerce and Science, Akola Department Profile

1. Name of the Department : Statistics
 2. Year of Establishment : UG - 1983
 3. Details of the staff members :

| S. N. | Name of the Faculty members | Educational Qualifications | Designation | Experience | | Specialization |
|-------|-----------------------------|---------------------------------------|---------------------|------------|----------|----------------|
| | | | | Teaching | Research | |
| 01 | Dr. S.T.Khadakkar | M. Sc. (Stat) Ph. D. | Associate Professor | 25 | 13 | Econometrics |
| 02 | P.P.Nawghare | M. Sc. (Stat) P.G.Dip.C.Sc. B. Ed. | Assistant Professor | 09 | 06 | EDP |

4. Student Profile to Programme (Ratio of Teachers to students):

| Year | Class | Boys | Girls | Total | Grand Total | Ratio |
|-------------|------------|------|-------|-------|-------------|---------|
| 2004 – 2005 | B. Sc. I | 33 | 06 | 39 | 76 | 2 : 76 |
| | B. Sc. II | 10 | 10 | 20 | | |
| | B. Sc. III | 13 | 04 | 17 | | |
| 2005 – 2006 | B. Sc. I | 35 | 22 | 57 | 105 | 2 : 105 |
| | B. Sc. II | 18 | 15 | 33 | | |
| | B. Sc. III | 08 | 07 | 15 | | |
| 2006 - 2007 | B. Sc. I | 39 | 24 | 63 | 132 | 2 : 132 |
| | B. Sc. II | 25 | 16 | 41 | | |
| | B. Sc. III | 15 | 13 | 28 | | |
| 2007 - 2008 | B. Sc. I | 26 | 25 | 51 | 125 | 2 : 125 |
| | B. Sc. II | 26 | 17 | 43 | | |
| | B. Sc. III | 15 | 16 | 31 | | |
| 2008 - 2009 | B. Sc. I | 37 | 13 | 50 | 135 | 2 : 135 |
| | B. Sc. II | 19 | 26 | 45 | | |
| | B. Sc. III | 27 | 13 | 40 | | |

05. Success rate of each programme, its comparison with University results

| Year | Class | Boys | Girls | Total | College % of passing | Uni. Result |
|---------|------------|------|-------|-------|----------------------|-------------|
| 2004-05 | B. Sc. I | 33 | 06 | 39 | 71.75% | |
| | B. Sc. II | 10 | 10 | 20 | 40.00% | |
| | B. Sc. III | 13 | 04 | 17 | 35.29% | 51.13 % |
| 2005-06 | B. Sc. I | 35 | 22 | 57 | 56.14% | |
| | B. Sc. II | 18 | 15 | 33 | 72.73% | |
| | B. Sc. III | 08 | 07 | 15 | 72.72% | 53.39 % |
| 2006-07 | B. Sc. I | 39 | 24 | 63 | 61.01% | |
| | B. Sc. II | 25 | 16 | 41 | 75.67% | |
| | B. Sc. III | 15 | 13 | 28 | 78.57% | 48.69 % |
| 2007-08 | B. Sc. I | 26 | 25 | 51 | 56.86% | |
| | B. Sc. II | 26 | 17 | 43 | 80.43% | |
| | B. Sc. III | 15 | 16 | 31 | 80.65% | 48.75 % |
| 2008-09 | B. Sc. I | 37 | 13 | 50 | 35.55% | |

| | | | | | | |
|--|-------------------|-----------|-----------|-----------|---------------|----------------|
| | B. Sc. II | 19 | 26 | 45 | 79.06% | |
| | B. Sc. III | 27 | 13 | 40 | 92.30% | 51.03 % |

Success rate of B.Sc.(Statistics) subject Programme, its comparison with University results

| Year | College | University |
|-----------|----------|------------|
| 2004-2005 | 50 % | 51.13 % |
| 2005-2006 | 72.72 % | 53.39 % |
| 2006-2007 | 78.57 % | 48.69 % |
| 2007-2008 | 80.695 % | 48.75 % |
| 2008-2009 | 92.30 % | 51.03 % |

06. No. of faculty members on University Bodies and other academic bodies and social organizations. Their role in curriculum designing and college development

- The syllabus of the UG is designed by Board of Studies in Statistics, Sant Gadge Baba Amravati University, Amravati. The syllabus is constructed mainly by following the model syllabus of UGC and also by considering the syllabus of NET/SET and MPSC. The syllabus of UG was revised in 2003-04 consecutively.
- One of the faculty member Dr. S. T. Khadakkar, HOD is a member of Board of Studies in the subject Statistics had an active contribution in reframing the syllabus. Also he takes part in suggesting deletion and addition of articles in the syllabus as per the requirement.
- Dr. S. T. Khadakkar, member of Board of studies in SGB Amravati University, Amravati takes part in the decisions made by board of studies from time to time. He is also a member of subject examination committee in Statistics, SGB Amravati University, Amravati. Both the faculty members of the department actively participate in setting of questions papers, valuation and moderation activities conducted by SGB Amravati University, Amravati.
- Dr. S. T. Khadakkar was member of Faculty of science (1986-2003).
- Member 32(5) committee, SGB Amravati University.
- Chairman, Ethical Committee, R.T. Ayurved College, Akola
- Expert Member Vidarbha Statutory Development Board, Nagpur, appointed by H.E. Governor of Maharashtra.
- Member on governing body, Dr.Panjabrao Deshmukh Vidarbha Administration & Development planning academy, Amravati (M.S.)
- Member District Planning committee, Amravati District.
- Member District Planning committee, Akola District
- Samitee Pramukh, Special Subject committee on Higher Education and Technical Education, Vidarbha Statutory Development Board, Nagpur
- Mr. P.P.Nawghare is Faculty member, Kakasaheb Dixit Sahakar Prashikshan Academy (Maharashtra state)
- Mr. P.P.Nawghare is Member Subject Examination committee Statistics, SGB Amravati University.
- Mr. P.P.Nawghare is Visiting lecturer for MBA programme of YCMOU, Nashik in local commerce college .

7. **Learning resources of the Department (Laboratories/ Computers/Internet/Department library etc.)**

- The department of Statistics has well furnished laboratory. The Statistical charts and Statistical table are also available to student at the time of practical. The broad band internet is also available. The department also provide paperwise & unitwise notes to the students as per prescribed syllabus The set of University question papers are also kept in the departmental library. One computer along with

printer, scanner is available with student as well as for lecturer. The learning resources related to the department are mainly Teachers, Library & Internet.

08. Enhancement of the resources during last five years.

- The department was established in 1983 with Degree Course B. Sc. having Optionals Computer, Statistics and Mathematics. From 2006 new combination of subject is made available to student. The combination of subject made available is Computer Science, Statistics and Electronics. The internet facility was started from 2005 to student as well as staff members.

09. Modern Teaching Methods:

- Other than lecture method, the department is making use of OHP and LCD projectors wherever possible. Also the students facilitates to use OHP and LCD projectors for delivering their seminars. Apart from unit tests and college test, frequent tests are taken on the articles taught in the classroom so that students study that articles. Assignments are given on the subject by staff members. Seminars are arranged to increase their confidence in the subject.

10. Faculty members participated in National and International Conferences / Workshops / Seminars etc.

Dr. S.T.Khadakkar

| S. No | Name of seminar/conference | Participation/ Paper presentation | Place of conference | Date |
|-------|---|--|-------------------------------|------------------------|
| 1 | National seminar on Bayesian Analysis. Theory & applications. | Participation | Amravati University, Amravati | 16-18 January, 1999 |
| 2 | Marathi Arthashashtra Parishad | Paper Published: Maharashtra Manavi Vikas & Asanghatit tshetra. | Jalgaon | 2003 |
| 3 | International conference on "Redefining work culture in Globalisation era" | Participation | NAGPUR | 26/9/2005 to 27/9/2005 |
| 4 | National conference on Statistics, Computer Science & application. | Paper Presentation i) Development of techniques & tools for computerised data recording & analysis. ii) An analysis of mobility forecasting structural design on relative knowledge. | AMRAVATI | 28-30 Nov. 2005 |
| 5 | International seminar on present scenario of Post Multifibre agreement. Comparative study of India & China. | Paper Published: Challenges before textile industries in POST MFA ERA. | NAGPUR | 27-28 Jan 2006 |
| 6 | Vidarbha Vidyapeeth Arhtashashtra Shikshak Parishad | Paper Published: Contribution of NABARD in Development | Khaperkheda; Dist. Nagpur | 27-28 January 2007 |

| | | | | |
|---|--|---|---|-----------------------------|
| 7 | National Seminar on National Rural Employment Guarantee Scheme and Poverty Alleviation | Paper Published: NREGS Act- A measure to provide 'decent work to all' | PGTD of Economics , Nagpur University Nagpur. | 24-25 March 2007 |
| 8 | National Seminar on Regional disparities in education, health and co-operation. | Chairman of the inaugural function. | PGTD of Economics , Nagpur University | 28 Feb.- 29 Feb. 2008 |
| 9 | National Seminar on impact on irrigation backlog on agriculture sector in Vidarbha | Organizing committee | Shri Shivaji College Akola | 29 th March 2008 |

Mr. P. P. Nawghare

| Sr No | Name of seminar/conference | Participation/ Paper presentation | Place of conference | Date |
|-------|--|---|-------------------------------|---------------------|
| 1 | National seminar on Bayesian Analysis. Theory & applications. | Participation | Amravati University, Amravati | 16-18 January, 1999 |
| 2 | National conference on Statistics, Computer Science & application. | Paper Presentation: Providing facilities to user waiting for a service in a queue | AMRAVATI | 28-30 Nov. 2005 |

11. Evaluation Process:

- The students are continuously assessed through frequently taking tests, unit tests, Annual College Examinations, seminar, and personal observation regarding their academic performance.

12. Participation of teachers in academic activities other than teaching and research:

Dr. S.T. Khadakkar

- Member, IQAC
- Co-ordinator, Quiz competition committee
- Co-ordinator, Feedback Committee

Mr. P.P.Navghare

- Member, Discipline Committee
 - Member, Admission Committee
 - Member, Feedback Committee
 - Member, Vigilance Committee
- The teachers participates in co-curricular and extra curricular activities of the college and worked in the organization committees of several activities like conferences, youth festivals and sport meets etc. as per the requirement.
- Both the faculty members of the department actively participate in setting, valuation, Invigilation programme of college examination and attend the difficulties of the students.

12. Research activities:

(A) M. Phil Dissertations:

Faculty member Dr. S.T.Khadakkar is registered as a guide for M. Phil, YCMOU,Nashik

| Sr. No. | Name of Student | Year | Title | Remark |
|---------|-------------------|-----------|---|--------|
| 01 | Ku. S. H. Gawande | 2006-2008 | The contribution small saving group in the development of rural region (Nandkhed village & its surrounding) | Passed |
| 02 | Ku. B.N. Patil | 2006-2008 | The Economical status the gram grower farmers in Pasobadhe village of Akola district | Passed |
| 03 | Mr. S.U. Kokate | 2006-2008 | The contribution of Vitthal Gramin non-agricultural Co-operative society in development of Risod taluqa of Washim district. | Passed |
| 04 | Mr. N. S. Gedam | 2007-2008 | The contribution of the Akola District Central Co-op. Bank branch Telhara in increasing economic level of farmers | Passed |
| 05 | Ku. S.N. Satav | 2008-2009 | An Economical study of various post office small saving schemes in Khamgaon Taluqa of Buldhana district. | Passed |

B) Reserch Papers published:

- (i) Dr. S. T. Khadakkar
- (ii) Mr. P. P. Nawghare

(C) Papers presented in the conference:

- (i) Dr. S. T. Khadakkar
- (ii) Mr. P. P. Nawghare

(D) Major Research Project :

- Name of Teacher : Dr. S. T. Khadakkar
- Designation : Associate Professor & Head
- Title : "Search of herbal antimicrobial agents from the plants of Akola district and Melghat region "
- Funding Agency : University Grant Commission under *XIth Plan*
- Amount Sanctioned : Rs. 8,49,000/-
- Date of Application : Setp. 2008
- Date of Sanctioned : August 2009 , Ongoing

(E) Details of Minor Research Projects :

Two minor projects

- Name of Teacher : Dr. S. T. Khadakkar
- Designation : Associate Professor & Head
- Title : "A Statistical and Economical Study of P.O. small saving scheme in Akola district"
: " *Identifying reasons for farmer suicide in west Vidarbha after PM package.* "
- Funding Agency : University Grant Commission under X th Plan/ *XIth Plan*
- Amount Sanctioned : Rs. 40,000 / Rs. 70,000
- Date of Application : 12 /09 / 1999// 12/02/2009

Date of Sanctioned : 28 / 03 / 2000 // 25/11/2009
Date of Completion : 28 / 03 / 2002 // *On going*

12. Books published by the staff:

- Faculty member Dr. S. T. Khadakkar has published the book “MIHAN Vidarbhasathi Vardan ” release at the hands of H.E. Governor of Maharashtra.

13. Participation of the department in extension activities:

- One Faculty member addressed students of 11 district of Vidarbha regarding the opportunities in MIHAN project, in all the 11 district of Vidarbha region.
- One Faculty member is on governing body of Dr. Panjabrao Deshmukh Vidarbha Administrative and development training academy, which conduct regular training programmes for government officers.
- One Faculty actively participates in preparing development plans of two district of Vidarbha namely Amravati & Akola.
- One Faculty member is faculty on Kakasaheb Dixit Sahakar Prashiksan Sansta, which gives training to members of co-operative societies.
- The Department conducts opinion polls in various elections.

14. Participation of the teachers in consultancy services:

- The department offers consultancy for surveys/opinion poll.

15. Achievements of the staff members during last five years:

- Faculty member Dr. S.T.Khadakkar appointed as expert member on Vidarbha Statutory Development Board, Nagpur by H.E.Governor of Maharashtra. He is also appointed as member on District Planning committees on Amravati & Akola Districts. He is also appointed on governing body of Dr. Panjabrao Deshmukh Vidarbha Administrative and development training academy, which conduct regular training programmes for government officers.

16. Plan of action during next five years:

- The department of Statistics is planning to start short term three month certificate courses in applied topics of statistics.
- The department of Statistics is planning to start post graduate diploma in SQC, OR and other applied topics in Statistics under innovative program of UGC.
- A State / National level conference.
- University level seminar for the students in the subject Statistics will be organized.

17. Departmental Activities:

- The activities of department of Statistics are student-centric.
- The overall development of Students is the mission of department.
- For this purpose “CLASS” – Cultural Literary and Academic association of Statistics Students, is formed for Statistics students. The various cultural and academic activities are conducted for students.
- Opinion polls are conducted by students on various issues. Manu political parties approach to us for conducting political survey before election of Municipal Corporation/State assembly/parliament, which enables them to choose the most suitable candidate for their party.
- The international day for disabled persons (3rd Dec) is celebrated by Statistics department along with Geology department to encourage disabled students of the college and to aware the students about the challenges faced by disabled students.
- All the teachers actively participate in the academic activities and the students counseling.
- College runs the student guardian scheme. Each teacher is guardian teacher for about 10 to 20 students. They do the counseling of the respective group of students and solve their problems like

release of scholarship, hostel problems and monitor their academic progress. They call the parents and interact with them.

- Weak students in the class are identified and special counseling is done for such students.

18. Details of faculty development programmes and teachers who benefited during the past five years.

- The staff member has attended refresher course as per the requirement.
- The staff members have participated in the national and international conferences, workshops and seminars.
- Various academic and research related programmes have been attended by the faculty members and benefited for teaching and research activities.
- One of the faculty member P. P. Nawghare has registered his name for Ph.D. work which is on the verge of completion.