

mDEPARTMENT OF STATISTICS(2014-2015)

1) In the last academic year (2013-14) subject Statistics was introduced at S.Y.B.Sc. level. Passing percentage is 100 at Sem.I and Sem.II. This year also 100% students have passed in Sem. I with two students securing 93% marks in statistics.

2) **The department activities :**

DBT STAR LECTURE SERIES : A lecture by Prof. P.G. Dixit ,Deputy Secretary, P.E. Society,Pune on the topic “Careers in Statistics“ was organized on Tuesday,3rd March, 2015 in AV Hall.

3) **Staff activities and achievements :**

(a) Dr.Mrs. A.A. Dharmadhikari:

(i) Worked as a visiting faculty for Ph.D. course in engineering at Modern College of Engineering ,Pune.

(ii) A Measure Research project by UGC,New Delhi is sanctioned with a grant of Rs.12.53 lakhs for 3 years.

(iii) Took active part in restructuring syllabi of Statistics of the class T.Y.B.Com.

(iv) Worked as a judge at the final round of S.Y.B.Sc Quiz for the activity ‘Ellocution’ at Modern College of Arts ,Science and Commerce, Shivajinagar, Pune organized by Pune University Statistics Association on 26th Feb.2015.

(v) Worked as a resource person at the syllabus revision workshop of T.Y.B.Com. organized on behalf of BCUD,Pune at Modern College of Arts ,Science and Commerce, Shivajinagar, Pune on 17th March,2015.

(b) Mrs. Sonia Joshi :-

Worked as a visiting faculty for conducting Statistics practicals

At M.Sc.(Zoology-sem I) in our college.

(c) Miss Yogita Shah:-

Worked as a visiting faculty for following :

- (i) Statistics practicals at M.Sc.(Zoology-sem I) in our college.
- (ii) T.Y.B.Sc.(Physiotherapy) at Modern College of Physiotherapy, Shivajinagar, Pune.

Students' Achievements:

(i) **SPPUSA QUIZ IN STATISTICS:-**

13 students of F.Y.B.Sc.(General), 35 students of F.Y.B.Sc. (Comp.Sci.) and 6 students of S.Y.B.Sc. participated in this quiz.

Topper's list:-

- Miss. Pragati Waghere and Mr. Deepakkumar Mishra (F.Y.B.Sc.(General))
- Miss. Mayuri Marathe (F.Y.B.Sc.(Comp.Sci.))
- Miss. Rupali Shelke, Mr.Satish Walke and Miss. Pooja Kajabe of S.Y.B.Sc. were promoted for final round of quiz.

(ii) **ANUBHUTI :**

The following projects were presented in Poster form in Anubhuti exhibition.

1.	Title of the Project	Is Ganesh festival eco-friendly?
	Name Of Students	1) Rupali Shelke 2) Stish Walke 3) Prasad Jadhav
	Name Of the guides	Dr.A.A.Dharmadhikari
	Name Of Department	Statistics
	Abstract	Purpose is to study the awareness of the common Man regarding type of Ganesh idol, type of immersion etc. Data collection was done by preparing a questionnaire.A survey was conducted in Aundh and Sangvi area on the occasion of Ganesh Visarjan. It is found that majority of people (70%) purchased eco-friendly idols(Shadu). They put "nirman" in the bin,"kund" and they preferred idol in the tank instead of river
2.	Title of the Project	Association between blood groups and types of Diabetes .
	Name Of Students	1) Supriya Salunke 2) Pooja Gaikwad 3) Pooja Kajabe
	Name Of the guides	1) Dr.A.A.Dharmadhikari 2) Mrs.Sonia Joshi.
	Name Of Department	Statistics
	Abstract	This project has carried out analysis of data about finding an association between blood groups and Type of diabetes. The data was collected from a Hospital in Pune city regarding age,gender,blood groups and type of diabetes of diabetic patients. It is found that blood groups and types of diabetes are not associated..

3.	Title of the Project	Statistical analysis of oral cancer in India
	Name Of Students	1)Mane Shrushti 2)Bhise Omkar 3)Shinde Pooja 4)Vishvakarma Prachi
	Name Of the guides	1)Miss. Yogita R.Shah 2)Dr. Amita Dharmadhikari
	Name Of Department	Statistics
	Abstract	Purpose is to study the proportion of oral cancer in India. The data was collected from K.E.M. hospital on 120 patients. Data included habits of people and their cancer treatments. So using statistical method we concluded that chemotherapy treatment is more effective than radiotherapy treatment in patients. Also Gender of patients and treatments are associated with each other.

4.	Title of the Project	Statistical analysis on infant & child mortality rate
	Name Of Students	1)Mayuri Marathe 2)Shardha Sakat 3)Supriya Sawant 4)Swapnil Supekar
	Name Of the guides	1)Miss. Yogita R.Shah 2)Dr. Amita Dharmadhikari
	Name Of Department	Statistics
	Abstract	The purpose is to study the proportion of infant mortality rate in India . Data was collected from the site www.minisrty.com of health and fertility welfare .com.Data include various types of fertility rates that is Neo-netal mortality rate, post neo netal mortality rates and peri –natal mortality rates. Using statistical methods we see that fertility rates are decreasing both in rural and urban areas but that proportion is

	still higher in rural areas than Urban.
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5.	Title of the Project	Comparison of performance in home pitch and foreign pitch in “Ashes Series”.
	Name Of Students	1) Pranay Shinde 2) Ranjit Bankar 3) Pravin Mane
	Name Of the guides	Dr.A.A.Dharmadhikari
	Name Of Department	Statistics
	Abstract	“Ashes series” in cricket is supposed to be very prestigious in the world. Two players “Kevin Peterson” of England and “Michael Clarke” of Australia who are very good batsmen are selected for comparison of their performances in the rest 20 matches of the Ashes series. It is observed that in his own country, performance of Peterson is better in terms of average score and consistency of scores. While for Michael Clarke , there is no significant difference in his performance in his home country and in the any other country.

6.	Title of the Project	Are we getting the exact weights of material purchased?
	Name Of Students	1) Sonali Sonawane 2) Trupti Bhumkar 3) Pranita Pol 4) Pramodini Pol 5) Sandhya Bodare
	Name Of the guide	Mrs. Sonia Joshi
	Name Of Department	Statistics
	Abstract	The purpose of this project was to observe

		<p>variability in weights of different grocery items like tea powder, washing powder, liquid handwash, soap bar etc. The data of weights of packets (sachets) of these materials were collected from various grocery shops .</p> <p>The final conclusion of this project is that , the liquid handwash sachets shows maximum variation ,whereas soap bar shows least variation in weights.</p>
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Project no. 3 was ranked 1st and Project no. 2 was ranked 2nd at college level.

Project no. 6 was ranked 1st at departmental level.

Dr.Mrs. A.A.Dharmadhikari

(Head-Dept. of Statistics)

P.E.Society

Modern College, Ganeshkhind, Pune 53

Science faculty

Department of Statistics

Report for Akanksha (2012-13)

Departmental Activities:

Students Achievements:

ACADEMIC ACIEVEMENTS

- ❖ Students of F.Y. B.Sc. (General and Computer Science) have completed various projects on Real life situation.
 - Time series analysis of Petrol prices.
 - Analysis of number of deaths due to malaria
 - A statistical report on use of internet by students.
 - Analysis of data related to No. of vehicles in Pune.
 - Analysis of data of generation and consumption of electricity in Maharashtra.
 - Statistical analysis for crime against women.
 - Statistical analysis of rape cases.
 - A statistical report on child crime.
- ❖ Students of F.Y. B.Sc. (General and Computer Science) have participated in statistics quiz “Who wants to be a statistics scholar?”. Three teams are winner teams Boys of F.Y. Comp. (Div B), Girls of F.Y. Comp. (Div A), and F.Y. B.Sc.

P.E.Society

Modern College, Ganeshkhind, Pune 53

Science faculty

Department of Statistics

Report for Akanksha (2010-11)

Departmental Activities:

Extracurricular activities:

a.1.1.1. Celebration of Teacher's day by organizing Lecture/Seminar by students of F.Y.B.Sc.

a.1.1.2. Celebration of Teacher's day by organizing Quiz for students of F.Y.B.Sc.(Comp.Sc.)

Staff achievements:

a. **Mrs. Rajashree M. Umarani**

- Attended National level workshop at "Modern College, Ganeshkhind, Pune 53.

Students Achievements:

ACADEMIC ACIEVEMENTS

- ❖ One Student of F.Y. B.Sc. (Computer Sci) Mr. Kishor Chate got 1st prize in P.U.S.A. Quiz
- ❖ Students of F.Y. B.Sc. (General and Computer Science) have completed various projects on Real life situation.
 - Time series related to change in price of dollar.
 - Popularity of channels.
 - Comparing performance of Sachin Tendulkar and Ricky Ponting.
 - A socio-economic survey of different education system and economic status of the children.
 - Relation between age and blood pressure.
 - To collect the climatologically data of ten metro cities and check which city has most consistent temperature and rainfall.
 - Fitting of Binomial distribution by using coin tossing experiment.
 - To analyze and ascertain which age group has high or low B.P. amongst the hospitalized patients in city of Pune.

- Verifying the service time, arrival time and waiting time in rush hours on petrol pump.
- Comparison of weight measurement of solid, liquid by using C.V.
- Time series analysis of weekly rates of vegetables.
- Fitting of Poisson distribution to the data of air crashes.
- Study of relation between length of pea and no of beans in pea.
- Pareto analysis by using data of defect in mobile phones.

Departmental Report
Statistics Department 2011-2012

Departmental Activity

Student Activity

1. An interclass Statistics Quiz was held on 1st February 2012. Four teams participated in the quiz. F.Y.B.Sc.Comp. Sci. (B div) team was the winner .
2. Students participated in the Science Exhibition held by the college on 20th and 21th January 2011. 10 Projects and 10 posters were presented in the exhibition.. Exhibit named “STATISTICAL ANALYSIS OF INFLATION” got the first prize and “STATISTICAL ANALYSIS OF NO. OF IDEA SIM CARD USERS IN PUNE CITY” got the second prize.

Staff achievements

Mrs. Sonia Joshi

Attended a state level seminar on “Roll of Mathematics in life sciences”
organized by Department of Mathematics, Modern College, Ganeshkhind.

Ms. Prajakta Chavan

Attended a state level seminar on “Roll of Mathematics in life sciences”
organized by Department of Mathematics, Modern College, Ganeshkhind

Mrs. Rajashree M. Umarani

Head of the Department

College at a glance 2013-14

1. Name of faculty/ department (only in case of commerce, faculty is applicable): **Statistics**
2. Name of Head of the Department
Dr. Mrs.Amita Dharmadhikari.
3. Total number of staff members : 4
 - a. Permanent staff members-- 1

b. Adhoc staff members-- 3

c. Registered for M.phil-- Nil

d. Registered for P.hD -- Nil

e. Having P.G Recognition-- 1

f. Approved as research guide-- Nil

4. Achievements of staff

a. Awards

Sr. no.	Name of staff member	Award	Awarding institution
1			
2			
3			
4			
5			

b. Courses attended (Orientation /Refresher /Laboratory courses / Hands on trainings/ any other course of more than two weeks duration)

Sr. no.	Name of staff member	Type of course	Details of the course
1			
2			
3			
4			
5			

c. Ph.D. /M. Phil /NET /SET received in this year

Sr. no.	Name of staff member	Details
1		
2		
3		

d. Any other

Kindly mention the work as guest faculty, judge, supervisor at other institutes

Sr.no	Name of staff member	Nature and place of work
1	Dr. Mrs. A.A.Dharmadhikari	Judge at final round of Quiz organised by Pune University at A.G. College ,Pune-4

5. Seminars / workshops organised for staff members

Sr. no.	Title	Duration and Dates	Level
1			
2			
3			

6. Certificate courses existing / sanctioned / proposed

Sr.No	Name	Status	No of students

7. Achievements of students (Awards/Competitions/ Contribution in NSS,NCC, Art's circle etc)

Sr. no.	Name of student	Achievement
1	Swapnil Shevkari (S.Y.B.Sc.)	1 st prize in Oral Presentation at final round of Quiz organised by Pune University at A.G. College ,Pune-4
2	Swapnil Shevkari (S.Y.B.Sc.)	1 st prize at Departmental level and 2 nd prize at College level in "Anubhuti", project competition.
3	Rupali Shelke (F.Y.B.Sc.)	1 st prize at College level in Quiz organised by Pune University .

8. Major activities organised For Students Like workshops, training programs, industrial visits, social event etc

(Please do not mention guest lectures and other minor activities)

Sr. no.	Name of activity	Class	Level
1	Workshop on "Use of R software "	F.Y.,S.Y.,T.Y. B.Sc.	UG
2			

9. Contribution of alumni

(In the context of placement, academic, event management , scholarships etc.)

Sr. no.	Name	Contribution
1		
2		
3		

10. Contribution of staff (extension and NGO)

Sr. no.	Name	Details
1	A.A.Dharmadhikari	Member of research team for various projects undertaken by “ManaShakti” at Lonawala, a social organisation
2		
3		

11. Contribution of staff at college level only as a chief person

Sr. no.	Name of staff member	Committee	Nature of work
1			

12. Publications (Books / Articles / Research papers)

Sr.no	Nature and Title	Publication details including ISSN/ISBN number	Citation Index
1.	“Women Empowerment in Higher education institutes, why and How? “by A.A.Dharmadhikari.	Proceedings of UGC sponsored National Symposium on Women Empowerment.	

13. Research work

a. Research projects:-

**Minor, Major at BCUD, UGC or any other governmental /nongovernmental
Funding agency**

i) Sanctioned

Sr. no.	Name of staff member	Title and Nature	Funding agency and other details
1			

ii). In process

Sr. no.	Name of staff member	Title and Nature	Funding agency and other details
1			

iii) Completed

Sr. no.	Title	Status
1		

iv) Proposed

Sr. no.	Name of staff member	Title and Nature	Funding agency and other details
1	A.A.Dharmadhikari	Empirical Study of Effectiveness of Pre-birth Education (Garbha sanskar) on Child Development by using Advanced Statistical Methods	UGC-Major research project.

(b) Research papers presentations (oral /poster)

Sr.	Level	Name of staff member	Title	Details
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no.				
1	International	i)		
		ii)		
		iii)		
2	National	i) A.A.Dharmadhikari	Women Empowerment in Higher education institutes, why and How?	UGC sponsored National Symposium on September 26 & 27,2013.
		ii)		
3	State	i)		
		ii)		
4	District	i)		
		ii)		
		iii)		

(c) Research papers submission in seminars and conferences

Sr. no.	Level	Name of staff member	Title	Details
1	International	i)		
		ii)		
		iii)		
2	National	i)		
		ii)		
		iii)		
3	State	i)		
		ii)		
		iii)		
4	District	i)		
		ii)		
		iii)		

(d) Seminars and conferences attended

Sr. no.	Level	Name of staff member	Title	Details
1	International			
		ii)		
		iii)		

2	National	i)		
3	State	i) Mrs. Sonia S. Joshi	Applications of Statistics in various domains of Science	BCUD sponsored two days seminar at S.P. College, Pune on 25 & 26 October, 2013
4	District	i)		

14. Contribution at University Level

Like participation in syllabus revision, co-ordinator of any event and examination

Sr.no	Name of staff member	Nature of contribution
1	A.A.Dharmadhikari	As a BOS member, restructuring syllabus of S.Y.B.Com. and M.Com. (Statistics)

15. Road map of faculty / department for next academic year 2014-15

Sr.no	Nature of event	Tentative Schedule
1	Study Tours	December 2014-January 2015
2	Workshop under DBT	September 2014
3	Guest lecture	August and December 2014
4	Pulishing Practical hand book	August 2014
5	Statistics Quiz	January 2015

16. Financial assistance given to students

Sr. no.	Name of staff member	Nature of beneficiary	Amount of scholarship
1			

17. Efforts taken for remedial teaching

Sr.no	Name of staff member	Beneficiary Student or class	Topic
1.	A.A.Dharmadhikari	F.Y.B.Sc. (General)	Probability,Probability distributions and Regression.
2.	Mrs.Sonia Joshi	S.Y.B.Sc.(Gen)	Discrete and Continuous Probability distributions

18. Collaborations with professional institutes

Sr.no	Details of Program	Name of institute	No of Beneficiaries

18. Any others

Please fill the departmental details in above format and submit the supportive documents to Central Documentation committee as per the schedule which will be displayed in the month of APRIL 2014.

THANKS !!!