

University Of Mumbai

मुंबई विद्यापीठ

Department of Statistics
Two Year Post Graduate Course



**Placement
Brochure
2020-2021**

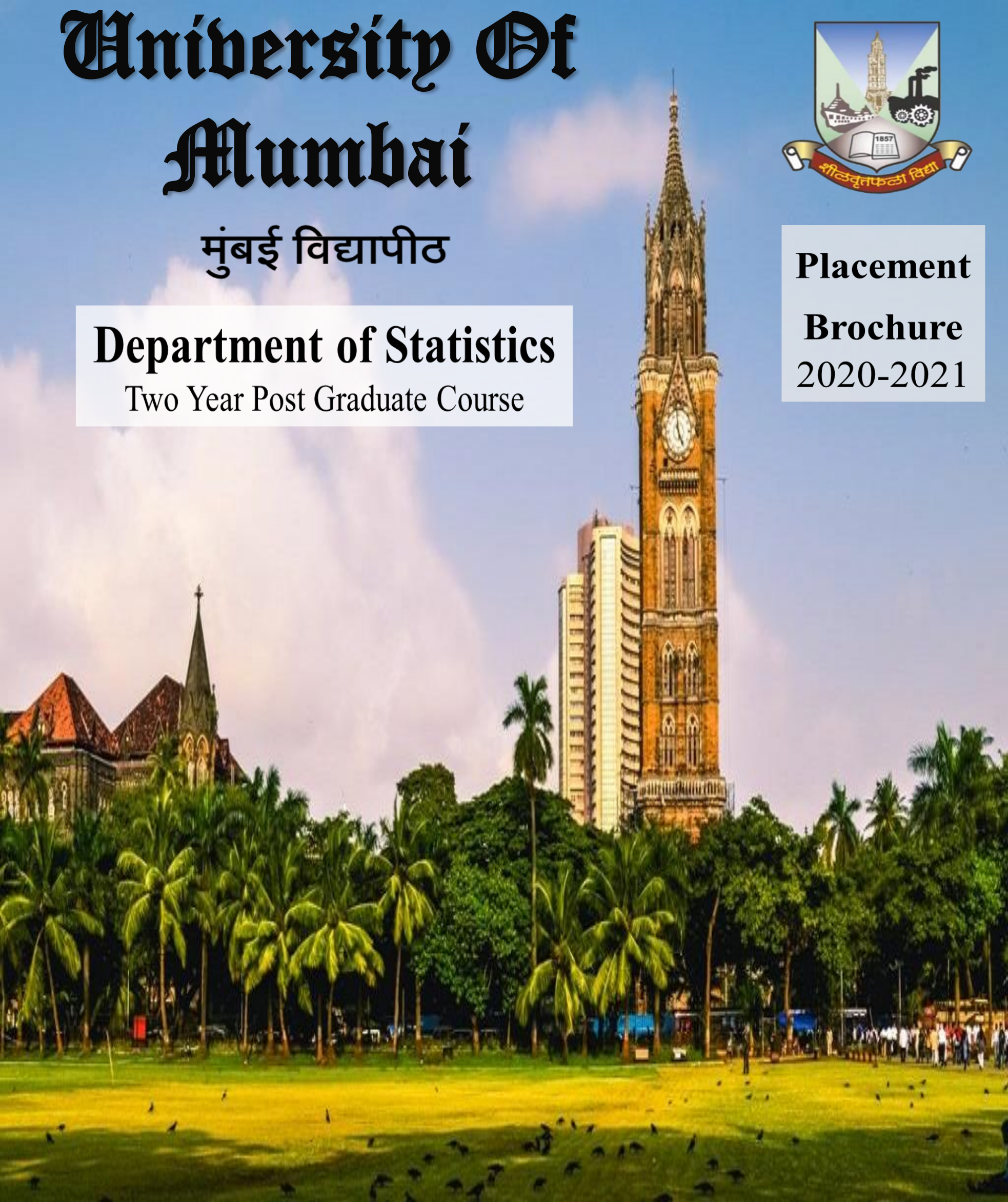


Table Of Contents

- About Us.
- From Head's Desk.
- From The Faculty Coordinators.
- Faculty Profile.
- Infrastructure.
- Batch Description
- Ongoing Projects.
- Why Hire Us?
- Placement Records.
- Placement Guidelines.
- Contact Us.
- Placement Committee.
- How To Reach Us.
- Curriculum.
- Testimonials.
- Past Recruiters.

About Us



University of Mumbai

The University of Mumbai (known earlier as University of Bombay) is one of the oldest and premier Universities in India. It was established in 1857 consequent upon “Wood’s Education Dispatch”, and it is one amongst the first three Universities in India. It has two campuses of areas 243 acres & 14 acres at Vidyanagari & Fort respectively.

The University was accorded 5 star status in 2001 & ‘A’ grade status in April 2012 by the National Assessment and Accreditation Council (NAAC).

It has been granted “University with Potential” for Excellence (UPE) status by UGC & PURSE Scheme by DST. Mumbai University was ranked 14th as per the QS India University Rankings & also was awarded the best State University in Maharashtra

About Us

DEPARTMENT OF STATISTICS



The Department of Statistics, University of Mumbai is one of the oldest and the most renowned teaching & research departments in the country. It was pioneered by the Late Prof. M. C. Chakrabarti in 1948. This was the first Statistics department to be established in western India to promulgate quality education of the subject.

The department offers two Post Graduate Diploma Courses, “The Post Graduate Diploma in Applied Statistics with Software” (PGDASS) and “The Post Graduate Diploma in Actuarial Science” along with M.Sc. Degree and also offers research degrees, M.Phil. and Ph.D. Numerous problem-solving sessions, seminars and project works are fostered to develop innovative analytical approach of learning the subject and to inculcate deeper understanding of the subject into students’ mind.

With strong focus on innovation, the students are encouraged to perform M.Sc. projects, through which they learn to tackle theoretical as well as industrial problems, transforming them into motivated individuals who can be great asset to any organization. This program prepares them for a career in different sectors like Finance, Analytics, Banking, Insurance, Risk Management, R&D, Pharmaceuticals, Market Research, etc.

About Us

MISSION

- 1. To disseminate statistical knowledge through teaching , consulting and outreach programs.**
- 2. To promote research both in applied statistics and theory.**
- 3. To encourage students to promote their expertise in statistical skills such as statistical data analysis using software's (R/SAS/SPSS/MINITAB/PYTHON etc.).**
- 4. To promote professional in the field of statistics.**

VISION

- 1. To establish new courses(Postgraduate/Diploma/Certificates) in new upcoming areas such as Big Data Analytics , Data Science , etc.**
- 2. To develop new curricula of Statistics courses to cope up with new technologies and new emerging statistical areas of research.**

From The Head's Desk



The field of Statistics addresses how to collect, analyze and interpret data. There is growing demand for highly skilled statisticians in the 21st century in many fields including Government Banking sector, Health Sciences, Business and Social Sciences etc. In these fields, large volume of data is generated every day.

Statistical softwares are playing vital role into processing, management and analysis of huge collected data. Department of Statistics, University of Mumbai mainly focuses on how to train students to solve real-life problems using statistical software such as SPSS, SAS, Minitab and R. The students who have completed the postgraduate program have been well trained and prepared with good knowledge of statistical softwares and enthusiasm to work in corporate as well as Government Sector very confidently. Students are well versed with statistical techniques like ANOVA, multivariate analysis, regression analysis, statistical inference and their applications.

- Dr. Vaijayanti Dixit

From The Faculty Coordinators

With the advent of computers, the globe has witnessed the importance of preserving and analyzing a plethora of data. As a result, there is an increasing demand for appropriate analytical and interpretation skills. In this situation, Statistics has become a vital tool of data analysis and valid inference in all fields.

The Department of Statistics, University of Mumbai, established in 1948, has a long-cherished history of having produced eminent academicians and successful people in industries such as Pharmaceuticals, Financial institutions, Insurance sector, Market Research and others. The students with active support of the faculty have initiated a campus recruitment program with the intention of sieving the best interest of perspective recruiters and the student community.

We look forward to your cooperation and a fruitful association between your respected Organization and our Department.

- Dr. Alok D. Dabade
- Mrs. Ashwini M. Ghanekar

Faculty Profile

Teaching Faculty:

- Dr. (Mrs.) Dixit Vaijayanti U.
- Dr. Gite Santosh P.
- Dr. Dabade Alok D.
- Mr. Tiwari Priyesh D.
- Mrs. Ghanekar Ashwini M.
- Ms. Chabukswar Sheetal

Visiting Faculty

- Dr. (Mrs.) Kalpana Phal (M.Sc., M.Phil., Ph.D.)
- Prof. (Mrs.) S.P. Nabar (M.Sc., Ph.D.)
- Mr. N. Hegde (M.Sc., M.Phil.)
- Dr. (Mrs) Leela Subramaniyan (M.Sc., Ph.D.)

For further details refer department website.

Infrastructure



The Department has two full fledged computer laboratories with updated Statistical softwares such as SAS, SPSS, R and Minitab with access to the internet.



The departmental library has numerous reference books and research journal which the students have at their disposal.

Batch Description

1. Batch Size: 26

2. Specialization:

QUALITY CONTROL:

Quality Control (QC) is a process through which a business seeks to ensure that product quality is maintained or improved. Quality Control requires the business to create an environment in which both management and employees strive for perfection.

Quality Control involves testing of units and determining if they are within the specifications for the final product. Inspection is a major component of quality control where physical product is examined visually.

OPERATIONS RESEARCH:

Operations Research , also called Decision Science or Operations Analysis, is the study of applying mathematics to business questions. Examples of Operations Research are Linear Programming , Queuing theory, Inventory Control Systems , etc. all of which are studied in detailed.

Ongoing Projects

PCOS

Polycystic ovary syndrome

Polycystic Ovarian Syndrome (PCOS) is one of the most common metabolic and reproductive disorders among women of reproductive age. Women suffering from PCOS present with a constellation of symptoms associated with menstrual dysfunction and androgen excess, which significantly impacts their quality of life. There is not much awareness regarding this. One of the leading newspapers THE HINDU has reported that one in five INDIAN women suffers from PCOS.

Experts say most women ignore the common symptoms of PCOS and turn to a doctor only when they face trouble conceiving. It is a common diagnosis in women presenting with infertility. PCOS is a syndrome, not a disease. It is a lifelong condition that continues far beyond childbearing years.

OUR MAIN OBJECTIVES ARE:

- 1) To find whether awareness regarding PCOS differs among different people based on certain factors (educational qualifications or age groups).
- 2) To identify and analyze the diet and life style habits that affect the condition of patients.
- 3) To identify and analyze how PCOS affects the ability of women to give birth.
- 4) To build a predictive model based on important factors.

Ongoing Projects

Digital Shopping Era

As we all know most of the people love to do shopping, but as we have seen that world has taken drift from offline shopping stores to online platforms so it becomes very important to assess this trend. Amazon and Flipkart are very famous examples of how the online shopping Industry has changed. Amazon is world's biggest e-commerce company in terms of market capitalization which is of \$1.58 trillion but the mind-blowing fact is India's total GDP is \$2.72 trillion i.e. 58.08% of India's GDP equal to Amazon market capitalization. So, it becomes very excited to analyse it how does this big changes comes into the picture?

OBJECTIVES:

1. To analyse the significant difference between the online and offline consumer groups in terms of demographic, technology use, availability and attitude of the consumer.
2. To examine the factors influencing the consumer to switch the platform of shopping.
3. What are the factors responsible for choosing offline against online platforms?
4. To analyse how customers make buying decision for online shopping and offline purchasing.
5. What is the effect of Covid-19 on offline shopping and how does it benefit the online shopping?

Ongoing Projects

Medistic – A Pandemic Era

Life is full of uncertainties and so are medical emergencies. This makes it important for every individual to have a health cover which offers an array of benefits that cater to your specific healthcare needs.

The outbreak of a disease such as COVID-19 has highlighted the need for health insurance and created more awareness about it being a necessity for future situations. Until this point, health insurance has never been considered a must-have for families. It is important to keep yourself sheltered from illnesses and also financial shocks.

Mediclaim, often referred to as Mediclaim insurance, is a form of health cover that mitigates your risk in monetary terms. It covers your hospitalization expenses along with any specific ailments and treatments that you incur during hospitalization. It is crucial to be well aware of all the related facts before investing in a Mediclaim policy. You may then be able to invest in a good policy unfailingly and have peace of mind knowing that you are covered at all times.

OBJECTIVES:

1. To study the effect of socio demographic factors on preference of Mediclaim policies.
2. Lack of awareness about health insurance.
3. To analyse trend in purchasing mediclaim policies before and after covid-19 pandemic .
4. to build a predictive model for estimating whether a person can purchase a Mediclaim or not depending upon socio-demographic factors .
5. To find out preferable Mediclaim company & plan.

Ongoing Projects

Aromatic Bubbling

Over the years much research has been devoted to improve the prediction of physical and biological properties of organic compounds. The development of methodology for generating structure-property relationships has facilitated this area of research.

Although it is agreed that physicochemical features of molecules determine their perceived odor, the rules governing this relationship remain unknown. A significant obstacle to such understanding is the high dimensionality of features describing both percepts and molecules.

We will apply a statistical method to reduce dimensionality in both odor percepts and physicochemical descriptors for a large set of molecules. We will do classification on the basis of fragrance/flavour of chemical compound using chemical & physical properties.

Objectives:

- 1) To build predictive model for estimation of Boiling point of chemical compounds using their chemical properties.
- 2) Prediction of fragrance/flavour of molecule using chemical & physical properties.
- 3) Interpolation of similar compounds.
- 4) Developing a web interface.

Ongoing Projects

Digital Wallet

Cashless transactions have been affecting the economy of India like a two-sided coin for the past four decades. An increase in usage of such means has been observed since then. Various types of cards, online transaction applications and online banking facilities emerged and changed the life of every consumer by offering multitude benefits, offers and more. Most of these modes are at ones disposal while shopping online and offline alike. This cutthroat competition among such companies put the consumers in a fix as to which mode of payment should be used and which one poses the maximum threat to the financial safety of the consumer. This intrigued us to study the behavioral patterns of consumers leaning towards such means to make their payments.

OBJECTIVES:

1. To estimate the respective percentage of various forms of payments, cards and applications used in India.
2. To analyze why a particular cashless mode of payment is preferred by Indian consumers.
3. To study the usage behavior of Indian consumers over the years.
4. To examine the time duration for which Indian consumers have trusted these methods.
5. To estimate the percentage of Indian consumers who have experienced frauds during online payments, hence determining whether each of these modes is safe.
6. To inspect various issues consumers face while employing cashless transaction.
7. To explore the expectations of consumers by government authorities to improve the flow of cashless payment .

Ongoing Projects

Investment Analysis On Middle Class People

Saving forms an important part of economy of a person. One need to invest and earn return on their ideal resources and generate a specified sum of money for a specific goal in life and make a provision for an uncertain future.

The purpose of this analysis is to determine the investment behaviour of investor and their investment performances. Investors perception will provide a way to accurately measure how they look at investing as a part of money management.

OBJECTIVES:

1. To understand in depth about different investment avenues available in India.
2. To understand the investors performance regarding the type of financial instrument and duration of investment.
- 3.To study the factors considered by investor before investment.
4. To study the risk tolerance level of individual investor before investing.
5. To study the depends/independence of the demographic factors such as age of investors and their risk tolerance level.
6. To identify factors impacting the decision to invest in modern investment Vs in traditional investment.

Why Hire Us?

India has seen a tremendous rise in demand for Statistics professionals across varied industry sectors. The reason for this rise in demand is an exponential increase in data. There is a massive data revolution that has transformed the industries around the world. Data is the fuel that drives the industry forward. However, complex data needs to be taken care of with proper skills & sophisticated techniques. This is where we as statisticians would play a crucial role.

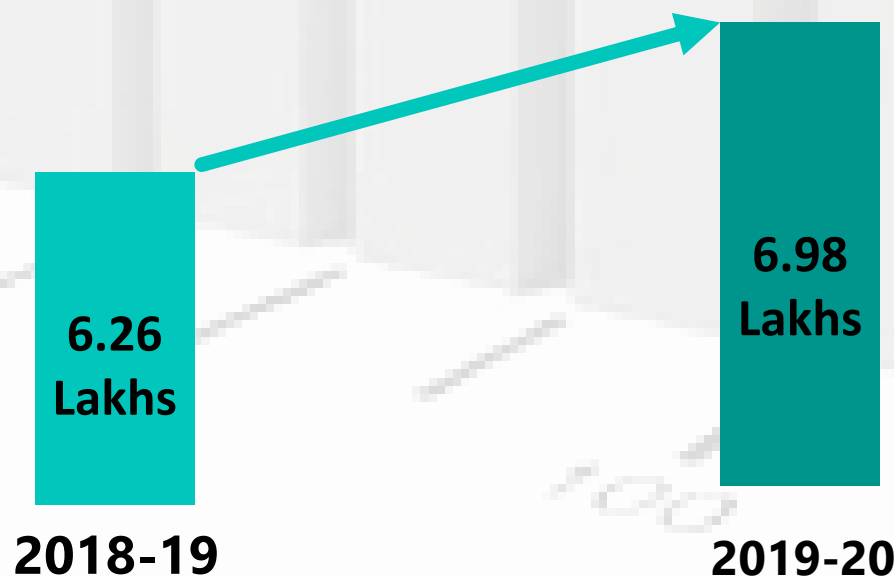
We at the department of Statistics have received rigorous inputs in statistical modelling, time series, classification, forecasting, parametric inference, regression analysis, testing of hypothesis, stochastic processes, design of experiments, operational research to name a few. The students have been equipped with hands-on experience on statistical softwares like R, SAS, Minitab and SPSS. In our curriculum, we have a real life project which helps us to tackle the needs of generating, analysing & drawing statistical inferences from the data to guide decision making.

Placements Records

Compensation Offered 2018-19	
Mean	INR 6.26 Lakhs
Median	INR 6.5 Lakhs
Maximum	INR 10 Lakhs

Compensation Offered 2019-20	
Mean	INR 6.98 Lakhs
Median	INR 6.5 Lakhs
Maximum	INR 10 Lakhs

Increase in average than last year



Placement Guidelines

PLACEMENT GUIDELINES

- Placement Cell of Statistics department facilitates on-campus recruitments for the students, registered for placement, of programs run by the department;
 - M.Sc. (Statistics)
 - Post Graduate Diploma in Applied Statistics with Software.
- Placement cell consist of faculty representatives as chairperson, convener and six to seven student representatives.
- Interested companies in hiring the students of department can contact us on provided contact details.
- The placement activity will be run only for the students studying in M.Sc. part II (semester III) and semester II students of Post Graduate Diploma in Applied Statistics with Software.
- All correspondences in the regard of placement must be done with the Placement Cell through placement email address:
- Usually, the placement session begins in the month of October every year.
- Companies interested in recruiting the students of department are requested to fill the **On-Campus Recruitment** form of department.

Placement Guidelines

- It is our earnest request, please send job profile, and mention salary details (at least range of CTC), probation period, time bond (if any), in the On-Campus Recruitment form.
- If range is mentioned, we consider the lower limit as the salary committed by the company.
- Any modification in the above-mentioned form or any other specific requirement should be conveyed to the Convener, Placement Committee of department at least one week in advance to avoid any inconvenience during their campus visit.
- Depending on situation either company can visit department or students can come to company.
- Entire process of placement including pre-placement talk, aptitude test (if applicable), technical interviews, HR interviews etc. should be completed within a day or at the most two.
- Companies are always advised to be in touch with the chairperson, convener or student representative of Placement cell. They should not entertain any direct contact from the students appearing in the placement process. If any student trying to contact you, please bring this immediately to the notice of the Placement cell.
- The Placement cell strictly follows “ONE OPPORTUNITY FOR ONE STUDENT”.

Placement Guidelines

- Once a company offers an opportunity to a student and if the offer is accepted by that student, then that student is out of the placement process and is not allowed to appear for placement further.
- The offers received by companies usually by month of October will be ranked according to Student Preferences, Work Profile, job Location, Compensation Package and/or number of students interested to recruit.
- Based on the company's feedback, a mutually convenient date of placement activity is finalized by the Placement Cell and company concerned.
- At the end of the placement activity of company, please handover the final list of selected students duly signed by the company's official present for making final selection with offered package to chairperson or convener of placement cell or send mail in this concern within one working day.
- Company can use Result Declaration form, available with the placement cell.
- No further interview or otherwise should be taken after the final selection.

Placement Guidelines

- Please send Offer letter to the chairperson or Convener of Placement cell. Placement cell will take care of distributing it among the selected students.
- The selected students will send an e-mail of acceptance of an offer to the company cc'ed to placement cell.
- Students will join the companies only after the completion of their respective courses.

Contact Us

Placement Committee

Faculty Representatives

Dr. Mrs. Vaijayanti U. Dixit

Head, Department of Statistics

Email: vaijud3@yahoo.co.in

Mobile: +91 9833249486

Dr. Alok D. Dabade

Chairperson,
Placement Cell

Email: add.mustats@gmail.com

Mobile: 9833586474

Mrs. Ashwini M. Ghanekar

Convener,
Placement Cell

Email: avhadashu993@gmail.com

Mobile: 7738375757

Student Representatives

Mr. Raj Hiranandani

President,
Email: rajhiranandani99@gmail.com
Mobile: 9820311521
9833024819

Mr. Rajaram Walavalkar

Vice President,
Email: imrvw23@gmail.com
Mobile: 7977811496
9405070068

Contact Us

Address for communication

Placement Cell, Department of Statistics,
3rd floor, Lokmanya Tilak Bhavan,
Vidyanagari campus, Kalina,
Santacruz (E), Mumbai - 400098.

Email : **mustatisticsplacement@gmail.com**

Website of department

<https://old.mu.ac.in/distance-openlearning/faculty/departement-of-statics-science/>

Placement Committee 2020-2021



**Mr. Raj
Hiranandani
(President)**



**Mr. Rajaram
Walavalkar
(Vice President)**



**Ms. Hema
Bisht
(Coordinator)**



**Mr. Chetan
Borghare
(Coordinator)**



**Ms. Rutuja
Jadhav
(Vice President)**



**Ms. Darshi
Shah
(Coordinator)**

How To Reach Us?

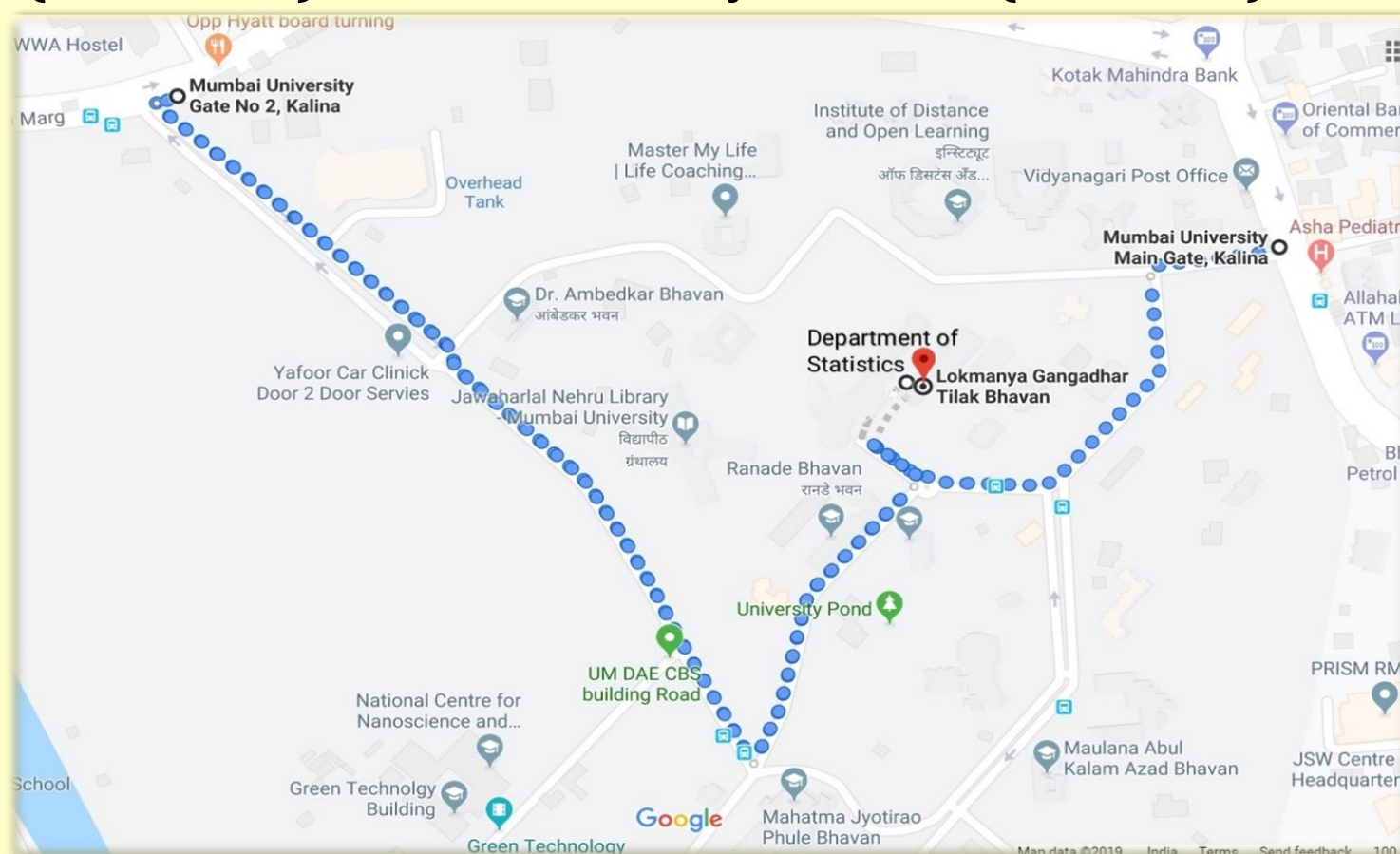
View the location of the Department in Google Maps:

<https://maps.google.com/?cid=11419788053377065740>

Address:

**2nd and 3rd floor, Lokmanya Tilak Bhavan , University of Mumbai,
Vidya Nagari, Kalina, Santacruz East, Mumbai, Maharashtra- 400098.**

**Directions to the Department from the University Main Gate
(North Gate) and the University Gate No.2 (Back Gate)**



For any further queries, contact the Placement Committee.

Curriculum : Course Structure

Semester I

- Probability Theory
- Linear Models
- Estimation Theory
- Sampling Techniques

Semester II

- Distribution Theory
- Regression Analysis
- Planning & Analysis of Experiments I
- Multivariate Analysis I

Semester III

Core:

- Multivariate Analysis II
- Testing of Hypothesis
- Planning & Analysis of Experiments II

Electives:

- Financial Mathematics
- Elements of Data Science
- Statistical Process Control
- Categorical Data Analysis
- Measure Theory

Semester IV

Core:

- Stochastic Processes
- Time Series Analysis
- Reliability & Survival Analysis

Electives:

- Advanced Theory of Designs
- Operation Research
- Statistical Decision Theory
- Statistics in Insurance
- Modern Statistical Inference

Testimonials



Archana Trigunayat
(2014-2016)

Senior Associate Analyst, Infosys

I am thankful to have completed my Masters Degree from Mumbai University, which is one of the reputed university all over India. The University helped me a lot to build a strong foundation on Statistical concepts. The knowledge I gained from my project gave me an experience of how to deal with real life projects.

Business Process Analyst, TCS

The biggest thing for any student is to get an opportunity to start their carrier with a reputed organization. I got placed in TCS, it is because of the efforts put by faculty & the placement cell which ensures that students get placed in the best company in market. I am thankful to MU for providing a platform to enhance my skills & opportunity to showcase them.



Keerthana Pillai
(2016-2018)



Lajree Worlikar
(2017-2019)

Deputy Manager, Kotak Mahindra Bank

Mumbai University has provided me with all the basic knowledge that I need to survive in the corporate world. The final year project has been useful in improving practical knowledge. MU has good faculty who helped me with all the doubts. And lastly I got my job through Mumbai University placement cell so I will be grateful to Mumbai University.

Testimonials



Deputy Manager, Kotak Mahindra Bank

You cannot build a strong building on a weak base & Dept. of Statistics, Mumbai University exactly focuses on building strong base of Statistics. The deep insight & clarity in various statistical concepts that I gained here helped me in dealing with diverse practical problems at my job as a risk analyst.

Vardhini Deshmukh
(2017-2019)

Modelling Analyst, Nielsen

Department of Statistics of Mumbai University is one of the premier public institution that has successfully created many data scientist long before the craze of data science. Dept of Statistics has provided me with the rigorous academic training both in applied statistics and theoretical Statistics which is the basic foundation of data science. The Academic project in the last semester helped me understand how to apply theoretical Statistics to tackle various business problems



Shubham Dhumal
(2018-20)

Deputy Manager, Kotak Mahindra Bank

I'm grateful to the faculty for their valuable teachings and their doubt solving and to the placement committee for working tirelessly for making sure we got the best opportunities. The University helped me build a strong statistical understanding which I could then apply at my job as a Business analyst at Kotak Mahindra Bank Ltd



Ankita Kadam
(2018-2020)

Past Recruiters

Companies Visited for on-campus placement from 2014-2015 to 2019-2020



Past Recruiters





THANK YOU!