

**DEPARTMENT OF ACTUARIAL SCIENCE  
SCHOOL OF MATHEMATICAL SCIENCES  
KAVAYITRI BAHINABAI CHAUDHARI  
NORTH MAHARASHTRA UNIVERSITY  
JALGAON- 425 001, INDIA**



**(University Reaccredited at the 'A' Grade  
with CGPA 3.11 by NAAC)**

**INFORMATION BROCHURE  
AND  
APPLICATION FORM FOR ADMISSION  
(EXTENDED LAST DATE: 15.09.2020)**

**TO THE**

**Three Years Course**

**B.Sc (Actuarial Science)**

**For the academic year 2020-21**

**(Course started in the year 2010-11)**

**Nature and Duration of the Course:** B.Sc.(Actuarial Science) is a full time course of three years (six semesters) duration after HSC (12<sup>th</sup> Standard) being run in the Department of Actuarial Science since 2010.

**Intake Capacity:**

**Regular Admission Intake for the Course:** 40 seats

70% seats(28 seats) are reserved for the candidates passed from **Maharashtra State Boards** and 30% seats (12 seats) are reserved for candidates passed from other State Boards from **other states of India**. (As per the rules of Government Maharashtra some seats are reserved for SC/ST/NT/OBC/SEBC only for candidates belonging to Maharashtra state). Admissions will be given on the basis of merit list of marks obtained in Mathematics at HSC(10+2).

**Eligibility:** A candidate who has passed H.S.C.(Class XII) from any stream (**Science/Commerce/Arts**) with one of the subject Mathematics and has obtained **at least 50%(45% for reserved category) marks in Mathematics**. (**Note:** Only those eligible candidates should apply who are really interested in building their career in Actuarial Science. That is candidate must have decided to join this course once selected for this course).

**Medium of Instructions for the course:** English

**Currently applicable Course Fees (in Indian Rupees): (Annual Fees)**

Student's State	Admissions from Regular Quota (40 seats)	
	For B.Sc. (I Year)	For B.Sc. (II and III Year)
Maharashtra State	₹ 17710	₹ 16085
Other State of India	₹ 23360	₹ 21585

**Hostel Fees: Single Seated** ( ₹ 4135 for one year).

**Triple Seated** ( ₹ 3435 for one year).

**Approx. Food charges at hostel:** ₹ 1200/1000 per month for male/female.

**Major Components of the Syllabus of B.Sc.(Actuarial Science):**

- **Statistical and Mathematical Methods:** Calculus, Linear Algebra, Descriptive Statistics, Probability Distributions, Mathematical Statistics, Applied Statistics, Sampling techniques, Total Quality Management and Statistical Process Control.
- **Actuarial Science:** Financial Mathematics, Survival Models, Life Contingencies, Life Insurance, Mathematics of Demography, Credibility Theory and Loss Distribution.
- **Economics, Finance and Accounting:** Principles of Macroeconomics and Microeconomics, Finance and Financial Reporting, Financial Economics.
- **Computational Methods and Practical:** Computer Programming in R, and practicals based on Statistical Software Packages like MATLAB, MINITAB, R, SPSS, MS-Excel etc.

## Course Structure of B.Sc.(Actuarial Science) – (Six Semesters)

Semester-I	Semester-II	Semester-III	Semester-IV	Semester-V	Semester-VI
Calculus	Mathematical Analysis	Sampling Distributions	Mathematical Statistics	Survival Models	Stochastic Modeling
Linear Algebra	Probability Distributions-II	Financial Mathematics	Survey Sampling & Indian Official Statistics	Applied Statistics	Total Quality Management and Statistical Process Control
Descriptive Statistics	Principles of Microeconomics	Principles of Macroeconomics	Life Contingencies-I	Finance and Financial Reporting	Credibility Theory and Loss Distributions
Probability Distributions-I	Principles and Practices in Insurance	R programming and Numerical Methods	Financial Accounting	Life Contingencies-II	Financial Economics
Practicals-I	Practicals-II	Practicals-III	Practicals-IV	Practicals-V	Practicals-VI
Effective Communication in English	Environment Studies	--	--	--	--

### Course Objective:

With highly rising demand of actuarial professionals coupled with slow increase in supply resulting into acute shortage of actuaries in India. Main objective to start this course is to facilitate good potential candidates to become actuaries and to prepare students to write examinations of Institute of Actuaries.

### Demand in Actuarial Profession:

- Insurance and Banking Industry in India and globally likely to generate many jobs for Actuarial Professionals the next few years.
- Today most of the actuarial jobs particularly in product pricing, asset valuations, compensation plan designing and various other non-insurance areas needing actuaries are carried out by MBAs or other professionals who are not ideally competent enough to perform them.
- The most important reason for a slow growth rate of Actuarial Graduates is poor awareness and lack of educational facilities to provide good quality training in India.

### Employment Opportunities for actuarial graduates:

- Insurance
- Pension plans and Fund Management
- Banking and finance
- Management consulting
- Government agencies: Social Security Administration, Pension Benefit Guarantee Corporation, and Department of Housing and Urban Development in developed nations.
- Brokerage houses and software development companies.
- For additional information please refer to the website of Institute of Actuaries of India (IAI), [www.actuariesindia.org](http://www.actuariesindia.org)

**Facilities Available:**

- Central and Departmental Library, Hostel with mess, Canteen, Health Center, Sport Complex, Gymnasium facilities are available in the natural, beautiful, pollution free and peaceful academic campus of the Kavayitri Bahinabai Chaudhari North Maharashtra University which is 10 Km away from the Jalgaon city.
- Computer Laboratory with Internet facility for students.

**Cancellation of Admission:**

No candidate will be allowed to cancel his/her admission without paying complete fees. Amount deducted from the total fees paid at the time of cancellation of admission is as follows:

**Admission cancelled within 7 days from the date of admission:**

₹ 500 + 10% of Tuition fee.

**Admission cancelled within 8-30 days from the date of admission:**

₹ 500 + 25% of Tuition fee.

**Admission cancelled after 30 days from the date of admission:**

100% (i.e. No refund will be paid)

**Important Dates:** (Dates are extended as many candidates are facing some problems)

Last Date of receiving Application form with DD of ₹ 300 : 15.09.2020

Declaration of merit list of candidates: 21.09.2020

Date of online Admission: 25.09.2020 (Instructions for online admission will be given while declaration of merit list on 21.09.2020)

Date of commencement of lectures (online or offline as per situation): 01.10.2020

**Submission of Application Form:**

Send your application form along with true copies of documents & Demand Draft of ₹ 300 for admission process processing fee drawn in favor of "The Finance and Accounts Officer, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon".

Send form, DD and true copies of documents by post on following address:

Head, Department of Actuarial Science, School of Mathematical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon - 425 001.

**Contact Persons:** (Please contact only in case of any query after going through this information brochure carefully. Do not call frequently)

**1. Prof. R. L. Shinde**

Head, Department of Statistics and Actuarial Science

School of Mathematical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.

E-mail: [rlshinde@nmu.ac.in](mailto:rlshinde@nmu.ac.in) Contact No.: 7030231220

**2. Mr. M. C. Patil**

Assistant Professor, Department of Statistics,

School of Mathematical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. E-mail: [manojcpatil@gmail.com](mailto:manojcpatil@gmail.com) Contact No.: 9545755855

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APPLICATION FORM FOR THE ADMISSION TO  
B.Sc.(ACTUARIAL SCIENCE) FOR THE ACADEMIC YEAR 2020-21  
(Please take printout of this form and this form must be filled and signed by the candidate only)**

To,  
The Head,  
Department of Actuarial Science,  
Kavayitri Bahinabai Chaudhari  
North Maharashtra University, Jalgaon-425001.

Attach your latest  
passport size photo  
here.

Sir,

I wish to get admitted as a full time student for the **B.Sc.(Actuarial Science)** at the Department of Actuarial Science, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. I have carefully read the information/instructions given in the Information Brochure and in this form.

(Name and signature of the candidate)

**PARTICULARS OF THE CANDIDATE**

1. Name in full :.....  
(In capital letters) Surname Name Father's/Husband's name
2. Address :.....  
(For correspondence) ..... Pin. : .....
- E-mail ID: .....Mobile/Ph. No. :.....
3. Father's/Husband's :.....  
Name and Address .....
4. Sex (Male or Female) :.....
5. Nationality :.....
6. Date of Birth :.....
7. Put the tick mark ( ✓ ) in the appropriate box applicable in your case (Only for candidates from Maharashtra state).

SC	ST	VJ/DT	NT-1	NT-2	NT-3	SBC	OBC	SEBC	OPEN

(P.T.O.)

8. Father's/Guardian's annual income from all sources: ₹ .....per annum.

9. Particulars of HSC (Class XII) Examination:

a. Name of the Board :.....

b. Name of the School/College :.....

c. Month and Year of Passing :.....

d. Stream at HSC : Science / Commerce / Arts

e. Subjects studied at HSC :.....

f. Marks obtained at HSC

**Marks obtained / out of**

i) Aggregate Marks :...../.....

ii) Marks obtained in Mathematics :...../.....

Candidate may also mention his/her CGPA score/Grade if applicable:

10. Particulars of **Demand Draft of ₹ 300**

DD Number:.....Date: ..... Name of the Bank.....

I hereby declare that all statements made in this application to the best of my knowledge and beliefs are true, complete and correct. I understand that in the event of any information being found false or incorrect, my admission is liable to be cancelled.

**Date :**

**Place :**

**Name and signature of the candidate**

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### INSTRUCTIONS

- 1) Candidate should attach only attested **true copies** of HSC(Class XII) examination Marks Sheet, Transfer Certificate (T.C.) from the previous School/College, Caste Certificate with validity certificate for candidate belonging to backward class from Maharashtra and Certificate of not belonging to Creamy Layer (only for candidate who belongs to other than SC/ST) issued after 31.03.2020 and/or valid at least up to 31.03.2021.
- 2) Candidates should not attach the original certificates along with this application form. They should produce the original certificates at the time of admission.
- 3) Incomplete applications will not be considered.
- 4) Candidate has to pay complete fees at the time of admission.
- 5) Along with this application form along with **Demand Draft of ₹ 300** towards admission process processing fee drawn in favor of "**The Finance and Accounts Officer, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon**" should be submitted.
- 6) Send this application form along with DD by post to **Head, Department of Actuarial Science, School of Mathematical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon-425 001.**