Sri Balaji Society's
Sri Balaji University, Pune
UNIVERSITY FOR OPPORTUNITIES
• Discipline • Dedication • Determination

School of Actuarial Science

B. Sc. in (Actuarial Science)

A.

Programme Structure

<table>
<tr><td>1.</td><td>PROGRAM OBJECTIVE</td><td colspan="5">1. With highly rising demand of actuarial professionals coupled with slow increase in supply resulting into acute shortage of actuaries in India.
2. 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.
3. 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</td></tr>
<tr><td>2.</td><td>DURATION (IN MONTHS)</td><td colspan="5">48 (4 Academic years and 8 semesters)</td></tr>
<tr><td>3.</td><td>INTAKE</td><td colspan="5">60 Students</td></tr>
<tr><td rowspan="2">4.</td><td rowspan="2">RESERVATION</td><td rowspan="2">I. Within the sanctioned intake</td><td>a) SC(In Percentage)</td><td>b) ST(In Percentage)</td><td>c) Differently abled (In Percentage)</td><td>d) Defence (In Percentage)</td></tr>
<tr><td></td><td></td><td></td><td></td></tr>
<tr><td rowspan="2"></td><td rowspan="2"></td><td rowspan="2">II. Over and abovethe sanctioned intake</td><td colspan="2">a) Kashmiri Migrants (In Seats)</td><td colspan="2">b) International Students(In Percentage)</td></tr>
<tr><td colspan="2"></td><td colspan="2"></td></tr>
<tr><td>5.</td><td>ELIGIBILITY</td><td colspan="5">Candidate must have any of the following criterions for admission to be eligible for admission in the B. Sc in (Actuarial Science) programme:
1. A candidate who has passed H.S.C. (Class XII) from any stream (Science/ Commerce/Arts or Diploma in Engineering) with at least 50% (45% for reserved category) marks.
2. Need to Clear SBEST test to be conducted by SBUP, Pune
(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).</td></tr>
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6.	**SELECTION PROCEDURE**	Eligible students who cleared the SBUP SBEST test can apply online. After scrutiny of the applications, eligible candidates will be informed the schedule of Personal Interview (PI) 1. **Personal Interview –** Experts will interview and assess the candidates on various parameters including the suitability of the candidates for the program. 2. **Weightage -** Marks obtained in HSC/qualifying exam will carry 50% weightage and Personal Interview (PI) will carry 50% weightage for preparation of finale merit list for admission.			
7.	**MEDIUM OF INSTRUCTION**	ENGLISH			
8.	**PROGRAMME PATTERN**	SEMESTER			
9.	**COURSE & SPECIALIZATION**	BAS Generic Course			
10.	**FEE**		**Academic Fee p.a**	**Institute Deposit**	**Total**
		Indian Students			
		International Students (USD equivalent to INR)			
11.	**ASSESSMENT**	Internal Evaluation at school level and External Evaluation al University level			
12.	**STANDARD OF PASSING**	I. Minimum 40% of Internal weightage 30% II. Minimum 40% of External Weightage 70%			
13.	**AWARD OF DEGREE CERTIFICATE**	After successful completion of all six semesters.			

14. NATURE WISE DISTRIBUTION OF CREDITS

Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	21	NA	NA	NA	NA	NA	21
2	21	NA	NA	NA	NA	NA	21
3	21	NA	NA	NA	NA	NA	21
4	21	NA	NA	NA	NA	NA	21
5	21	NA	NA	NA	NA	NA	21
6	21	NA	NA	NA	NA	NA	21
7	21	NA	NA	NA	NA	NA	21
8	21	NA	NA	NA	NA	NA	21
Total	**168**	-	-	-	-	-	**168**

B.

Course Structure

Bachelor of Actuarial Science
Course Structure

Catalog Course Code	Course Code	Course Title	Credit	Internal Marks	External Marks	Total Marks
Semester: 1						
Generic Core Courses						
		English 1	3	30	70	100
		Business Economics I	3	30	70	100
		Business Environment	3	30	70	100
		Mathematics I	3	30	70	100
		Actuarial Statistics I	3	30	70	100
		Financial Mathematics I	3	30	70	100
		Statistics Lab with Excel	3	30	70	100
			21	210	490	700
Semester: 2						
Generic Core Courses						
		English 2	3	30	70	100
		Business Economics II	3	30	70	100
		Business Management	3	30	70	100
		Mathematics II	3	30	70	100
		Actuarial Statistics II	3	30	70	100
		Financial Mathematics II	3	30	70	100
		Statistics Lab with Advance Excel	3	30	70	100
			21	210	490	700
Semester: 3						
Generic Core Courses						
		Communication Skill 1	3	30	70	100
		Actuarial Mathematics	3	30	70	100
		Probability Theory & Distributions	3	30	70	100
		Actuarial Accounting-I	3	30	70	100
		Investment And Finance Actuarial Practice I	3	30	70	100
		Statistics Lab with R	3	30	70	100
			21	210	490	700
Semester: 4						
Generic Core Courses						
		Communication Skill 2	3	30	70	100
		Mathematical Modelling	3	30	70	100

		Stochastics Models	3	30	70	100
		Actuarial Accounting-II	3	30	70	100
		Financial Engineering & Loss Reserving	3	30	70	100
		Actuarial Practice II	3	30	70	100
		Machine Learning with Python	3	30	70	100
			21	210	490	700
Semester: 5						
Generic Core Courses						
		Risk Modeling and Survival Analysis	3	30	70	100
		Actuarial Risk Management – I	3	30	70	100
		Health And Care	3	30	70	100
		Life Insurance	3	30	70	100
		General Insurance	3	30	70	100
		Pension And Other Benefits	3	30	70	100
		Mini project	3	30	70	100
			21	210	490	700
Semester: 6						
Generic Core Courses						
		Time Series Analysis	3	30	70	100
		Actuarial Risk Management – II	3	30	70	100
		Profit Testing and Policyholder Analysis in Life Insurance	3	30	70	100
		Practice of Group Insurance and Retirement Benefit Schemes	3	30	70	100
		Basics of Reinsurance	3	30	70	100
		Project	6	60	140	200
			21	210	490	700
Semester: 7						
Generic Core Courses						
		Foreign Language	3	30	70	100
		Foundation of Casualty Actuarial	3	30	70	100
		Assurance & Annuity Contracts	3	30	70	100
		Introduction to Derivatives and Financial Markets	3	30	70	100
		Model Documentation Analysis and Reporting	3	30	70	100
		Life Insurance II	3	30	70	100
		General Insurance II	3	30	70	100
			21	210	490	700

Semester: 8						
Generic Core Courses						
		Research Methodology	3	30	70	100
		Application of Statistical Software's (SPSS)	3	30	70	100
		INTERNSHIP	15	150	350	500
			21	210	490	700

Bachelor of Actuarial Science

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester 1	NA	NA	21	700
Semester 2	NA	NA	21	700
Semester 3	NA	NA	21	700
Semester 4	NA	NA	21	700
Semester 5	NA	NA	21	700
Semester 6	NA	NA	21	700
Semester 7	NA	NA	21	700
Semester 8	NA	NA	21	700
Total	**NA**	**NA**	**126**	**5600**