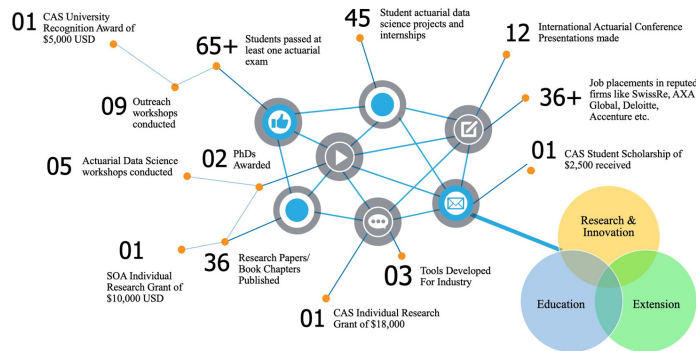


# Discover

## Our Actuarial Data Science Program!



SSSIHL has achieved the highest Gold Level recognition by CAS, placing it among top global universities. This recognition highlights its exceptional commitment to developing the next generation of actuaries through innovative Property & Casualty educational offerings.

## Salient Features of our Actuarial Data Science Program

**Demand**

In response to the growing demand for actuarial data science expertise in India's and international landscape.

**Strategic**

A strategic initiative aligning with global data-driven risk management harmonizes with national economic priorities.

**Holistic**

SSSIHL's commitment to delivering integral, value-based and transformative education, fostering holistic development.

**Accessible**

Merit-based open admissions policy for all irrespective of income, religion or region. Free education for all students.

**Gurukula**

A compulsory residential policy with an environment similar to the ancient Indian gurukula system of education.

**Research**

Since 2017, SSSIHL actively in ADS research producing 36+ papers, 45+ dissertations, 2 Ph.D.s, projects with CAS & SOA.

## Our Aim

SSSIHL Center for Excellence in Actuarial Data Science collaborates with actuarial bodies and industry partners to conduct cutting-edge Actuarial Data Science projects. Our research spans diverse areas, including Metaverse insurance, Electric Vehicle analysis, Cyber Risk examination, ESG Climate Change Impact modeling, Data-Driven Fraud Detection in Health Insurance, Blockchain and Cryptocurrency Insurance, IFRS 17 Implementation, specialized insurance products for Cancer & Crop insurance, Enterprise Risk Management Modeling, and Real Estate Residual Values insurance, emphasizing pricing and reserving strategies.



**SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING**

(Deemed to be University)



SOA University  
Advanced Curriculum  
UCAP AC Level



SCAN TO KNOW MORE



CAS University  
Recognition Program  
Gold Level



**"End of Education is Character."**

- Bhagawan Sri Sathya Sai Baba, Founder Chancellor

# BS Actuarial Data Science\*

## Year I

- Probability & Statistics
- Financial Mathematics
- Business Economics - Micro & Macro
- Introduction to R
- Excel Basics for Actuarial Practice
- Fundamentals of Actuarial Mathematics
- Data Concepts and Visualization
- Actuarial mathematics using R
- Excel Advanced for Actuarial Practice

## Year II

- Advanced Short-Term Actuarial Mathematics
- Advanced Long-Term Actuarial Mathematics
- Corporate Finance
- Introduction to Python
- Actuarial Communications
- Accounting for Financial Institutions
- Introduction to Machine Learning
- Property and Casualty Insurance Fundamentals

## Year III

- Statistics for Risk Modelling
- Introduction to Deep Learning
- Modern Actuarial Statistics
- Advanced Actuarial Statistics
- Predictive Analytics using R
- Course on Ethics and Professionalism
- Predictive Modelling using Python
- Advanced Topics in Predictive Analytics
- Mini-Project

## Year IV

- Basic Ratemaking
- International Regulation P&C
- Actuarial Practice I & II
- Research Methodology
- Estimating Claim Liabilities
- Financial Economics
- Financial Reporting
- Capstone Project

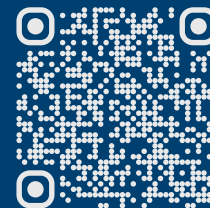
• As per New Education Policy 2020



A comprehensive curriculum which includes essential actuarial and data science subjects, comprising nine courses towards achieving ASA (SOA) or ACAS (CAS) designation.



# Apply Now



Limited spots available, apply now at [sssihl.edu.in/admissions/apply-for-admissions/](https://sssihl.edu.in/admissions/apply-for-admissions/)

# Get in touch!

[coordinator@cads.sssihl.edu.in](mailto:coordinator@cads.sssihl.edu.in)



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