INSURANCE LOSS MODELLING using Excel

100+ hours Case Study and Project- driven Methodology Blended Learning Methodology





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DETAILED CURRICULUM

MODULE 1 - Introduction to Insurance Products & Modelling Techniques

INSUARANCE Products	 Life Insurance Health Insurance Non Life Insurance products
PREDICTIVE MODELLING TECHNIQUES	 Survival Analytics Markov Chain - Time Homogenous & Time Inhomogenous Estimating the life time distribution function Proportional hazards models The Binomial and Poisson models Exposed to risk Graduation Empircal Bayes Credibility theory Loss Distribution Risk Models Generalised Linear Modelling Time Series Modelling
	 Simulation

MODULE 2 - Pricing reserving & Capital Calculations

DETERMINISTIC RESERVING * Orian Ladder Method * Orian Ladder Method

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DETAILED CURRICULUM

STOCHASTIC RESERVING	 Analytics methods Simulation - based methods 			
CAPITAL MODELLING	 Deterministic Models Stochastic Models 			
PRICING	 Burning cost approach Frequently/Severity approach Generalised Linear Modelling Generalised Additive Models Generalised Linear Mixture Modelling 			
Health Insurance				
PRICING	 Equation of value / formula approach Cashflow techniques Group risk assessments Options and guarantees 			
RESERVES & Capital	 Market consistents valuation Value at Risk (VaR) capital assessment 			



DETAILED CURRICULUM

Life Insurance Pricing and Reserving

PRICING	 Equation of value / formula approach 	
RESERVING	 Gross Premimum Prospective Reserve Gross Premimum Retrosrospective Reserve 	
CAPITAL Modelling	 Market consistent valuation Value at Risk (VaR) capital assessment 	

BACKGROUND

OBJECTIVE

ATTENDEES

PEDADOGY

BACKGROUND

Actuaries face many challenges today , ranging from Pricing & valuation of a vast range of insurance products to reserving & Capital Calculations . These challenges are highly relevent for today's insurance industry, bringing imperatives and incentives for researchers to develop new tools for risk modelling and risk management. This course teaches all the tools and techniques available domain to handle these complex calculations .



OBJECTIVE

Understanding of different types of insurance products - Life insurance , Health insurance & Non Life insurance products . Understanding the concept of Pricing , Reserving and Capital calculations . Understanding actuarial tooks and techniques available to model insurance risks.



WHO CAN ATTEND

An MBA in Finance or any Finance Professional pursuing FRM/Actuaries who is aspiring to take up opportunities in insurance companies



PEDADOGY

An intuitive non-quantitative approach will be employed throughout so that participants develop a feel for risk/reward tradeoffs without relying on complex mathematical formulas. Having said that , participants are encouraged to have laptops with Excel for a chance to manipulate simple but illustrative calculations.



DEMO MODELS

DURING THE PROGRAM YOU WILL LEARN TO CREATE EXCEL MODELS LIKE SHOWN BELOW





FREQUENTLY ASKED QUESTIONS

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PREREQUISITE

Knowledge of Basic Excel , Basic Statistics , insurances Products is must

CERTIFICATE



Silver Certificate on successful completion of projects . Gold Certification on passing a 2 hours MCQ based exam.



DURATION

100+ hours

ABOUT THE TRAINER



Karan Aggarwal is one of India's leading trainers in Financial Modelling, Risk Modelling, Data Analytics and academic programs like Financial Risk Manager (FRM) & Actuarial Science. He has spearheaded several solution accelerators and spreadsheet-based prototypes in Risk and Analytics space. Karan has also authored a number of books on Advanced Excel, Statistical Modelling, Risk Modelling & Machine Learning. He is widely regarded for his problem-solving, thought leadership and intrapreneurship skills. His analytical mindset, solid fundamentals & the thirst to keep learning set him apart as a true authority in this field. Karan has also been awarded the Young Indian Entrepreneur Award by the Confederation Of Indian Industries in the year 2017.



OUR TRAINEES WORK IN































OUR SERVICES 4 Risk Managem Finance -R ×∎ TRAINING SOLUTIONING CONSULTING

