

Welcome to

IAQS

INSTITUTE OF ACTUARIAL
& QUANTITATIVE STUDIES



ORIENTATION



AKASH RUGHANI

PROGRAM DIRECTOR – IAQS

- Chartered Accountant (ICAI, India) – Merit Rank Holder
- Financial Risk Management (Cleared) (GARP, USA)
- Cleared 8 Actuarial Papers
- Actuarial Mentor – Over 14 years
- Consultant to various general insurance companies





OUR AGENDA

About **IAQS** | INSTITUTE OF ACTUARIAL
& QUANTITATIVE STUDIES

Accreditation with IFoA

Course Information &
structure

Key Highlights of the
Program

Industry – Academia
Partnership

Subject Overview &
Mapping

Placements and Class
Profile

General Rules

Credit System

Learning Management
System (**LMS**)



JOURNEY OF



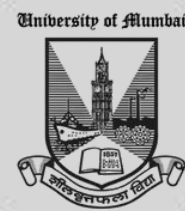
INSTITUTE OF ACTUARIAL
& QUANTITATIVE STUDIES

A circular icon containing the IAQS logo, positioned above the 2018 arrow.

IAQS

2018

Formation of
IAQS with a
holistic Industry
Advisory Board



2019

1st Batch started
with 20 students



2020

Only Course in
India to get
accreditation
from IFoA
offering up to 6
exemptions



2021

International
Accreditation with
a direct pathway
to Australian
National
University



2022

MSc Program
Accredited by
the IFoA offering
7 exemptions

The logo of Heriot Watt University, featuring a crest with a shield and a banner.

2023

Partnered with
Herriot Watt
University and
Bayes Business
School in the UK



2024

400+ Students,
30+ Industry
Mentors
3+ Qualified
Actuaries and 20+
Corporate
Partners

JOURNEY OF IAQS

INSTITUTE OF ACTUARIAL
& QUANTITATIVE STUDIES

The Hybrid Program

MSc in Actuarial Science with Data Analytics

IAQS

X



RASHTRIYA RAKSHA
UNIVERSITY

INSTITUTE OF ACTUARIAL &
QUANTITATIVE STUDIES

Everything You Need. Nothing You Don't.

- Duration: 2 years (Hybrid)
- Added Flexibility: Ideal for working professionals, remote learners & international students
- Curriculum conducted as per IFoA Standards (Accreditation in Process)
- Live + recorded sessions
- Campus immersion every semester
- Offline exams at nearby national & international centres +
- Scholarship up to 50% for Inaugural Batch

ACTUARIAL INSTITUTES



The Institute of Actuaries of India is the sole National Apex Body for Actuaries in India with an Objective to prepare "Actuaries of tomorrow" who are adequately qualified and competent in the global context.



The Institute and Faculty of Actuaries (IFoA) is the UK's only chartered professional body dedicated to educating, developing and regulating actuaries based both in UK and internationally.



The Society of Actuaries is a global professional organization for actuaries. It was founded in 1949 as the merger of major actuarial organizations, the Actuarial Society of America & the American Institute of Actuaries.



The Casualty Actuarial Society is a leading international professional society of actuaries, based in North America, and specializing in property and casualty insurance.



Institute
and Faculty
of Actuaries

MSc (Actuarial Science with Data Analytics) is India's only Hybrid degree programs to be **accredited by IFoA for **exemptions**.**



INSTITUTE OF ACTUARIAL
& QUANTITATIVE STUDIES

M.Sc. ASDA

ONLY HYBRID COURSE TO BE ACCREDITED BY IFoA AND PROVIDING upto 7 EXEMPTIONS

India's first and only IFoA accredited Hybrid M.Sc degree offering exemption up to 7 IFoA Core Principle subjects namely CP1, CM1, CM2, CS1, CS2, CB1, and CB2.

2-Year, Full Time, M.Sc.
(Actuarial Science with Data Analytics) degree program.



Supporting applicants for professional career pursuits and equipping them with relevant technical skills and focusing on their holistic development.

Comprehensive Foundation and depth in the field of Banking, Financial Services, and Insurance.

Focused and fast paced curriculum to give the required academic and professional in actuarial journey.



Institute
and Faculty
of Actuaries

COURSE STRUCTURE FOR MSC -YEAR-1

SEMESTER-1

- **Probability and Statistics**
- **Financial Mathematics**
- **Business Economics**
- Insurance
- **Application of IT – Excel**
- Fraud Analytics and Prevention

SEMESTER-2

- **Portfolio Theory and Security Analysis**
- **Financial Engineering**
- **Statistical and Risk Modelling**
- **Business Finance**
- Generative AI
- **R – Project**

Bold subjects are IFoA Subject Mapping

COURSE STRUCTURE FOR MSC -YEAR-2

SEMESTER-3

- **Pricing & Reserving for Life Insurance – 1**
- **Statistical and Risk Modelling – 2**
- **Statistical and Risk Modelling – 3**
- **Application of IT – Python**
- Model Documentation & Analysis
- **Actuarial Practice 1**

SEMESTER-4

- **Pricing & Reserving for Life Insurance – 2**
- **Statistical and Risk Modelling – 4**
- **Predictive analytics & machine learning**
- **Actuarial Practice 2**
- Introduction to cyber security
- Data Visualisation and Power BI

Bold subjects are IFoA Subject Mapping

IFoA – Subject Mapping for MSc

IFoA Papers	IAQS Subjects	Semester
CB 1	Business Finance	2
CB 2	Business Economics	1
CM 1	Financial Mathematics, Pricing & Reserving for Life Insurance Products 1 & 2.	1, 2, 3 & 4
CM 2	Portfolio Theory & Security Analysis, Financial Engineering 1, Statistical & Risk Modelling 2	2 & 3
CS 1	Probability & Statistics, R - Project work	1 & 2
CS 2	Statistical & Risk Modelling 1, 2, 3 & 4, PAML	2, 3 & 4
CP 1	Actuarial Practice 1 & 2	3 & 4
CP 2	Model Documentation Analysis and Reporting	3

MSc Actuarial Science Placements Statistics



Highest

Package

18 LPA

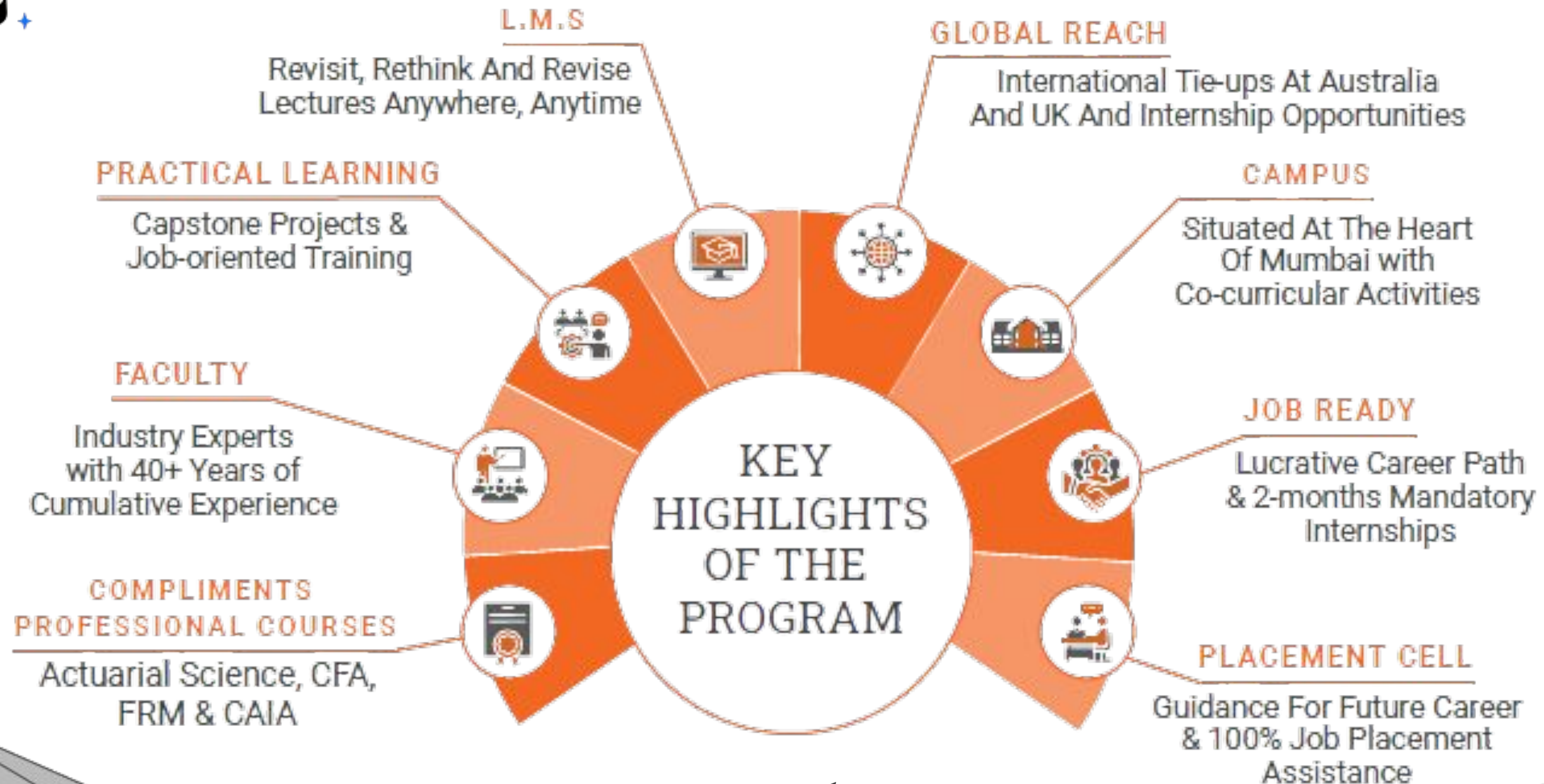


Median

Package

10.5 LPA

KEY HIGHLIGHTS OF PROGRAM

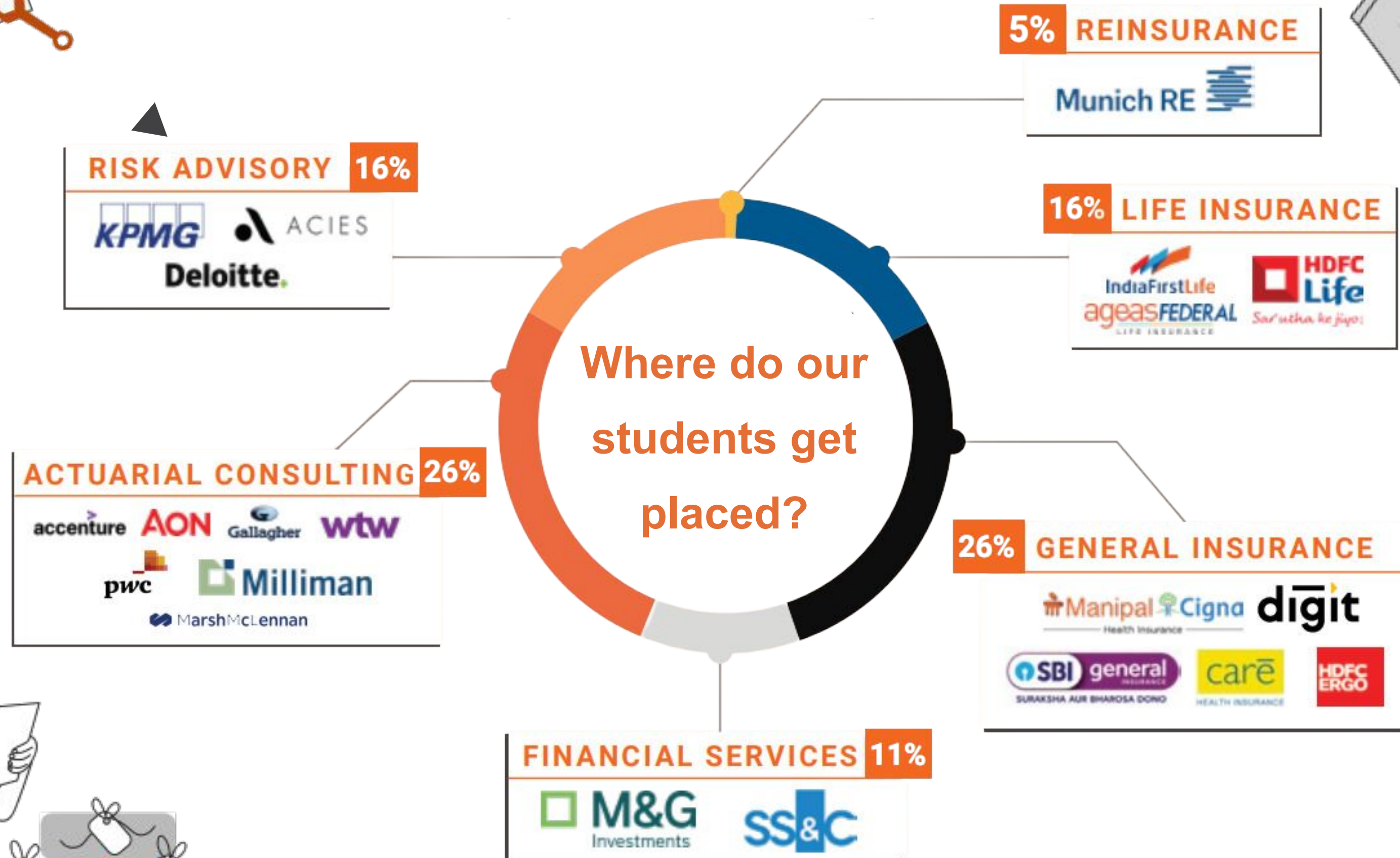




Placement Statistic Overview



PLACEMENTS



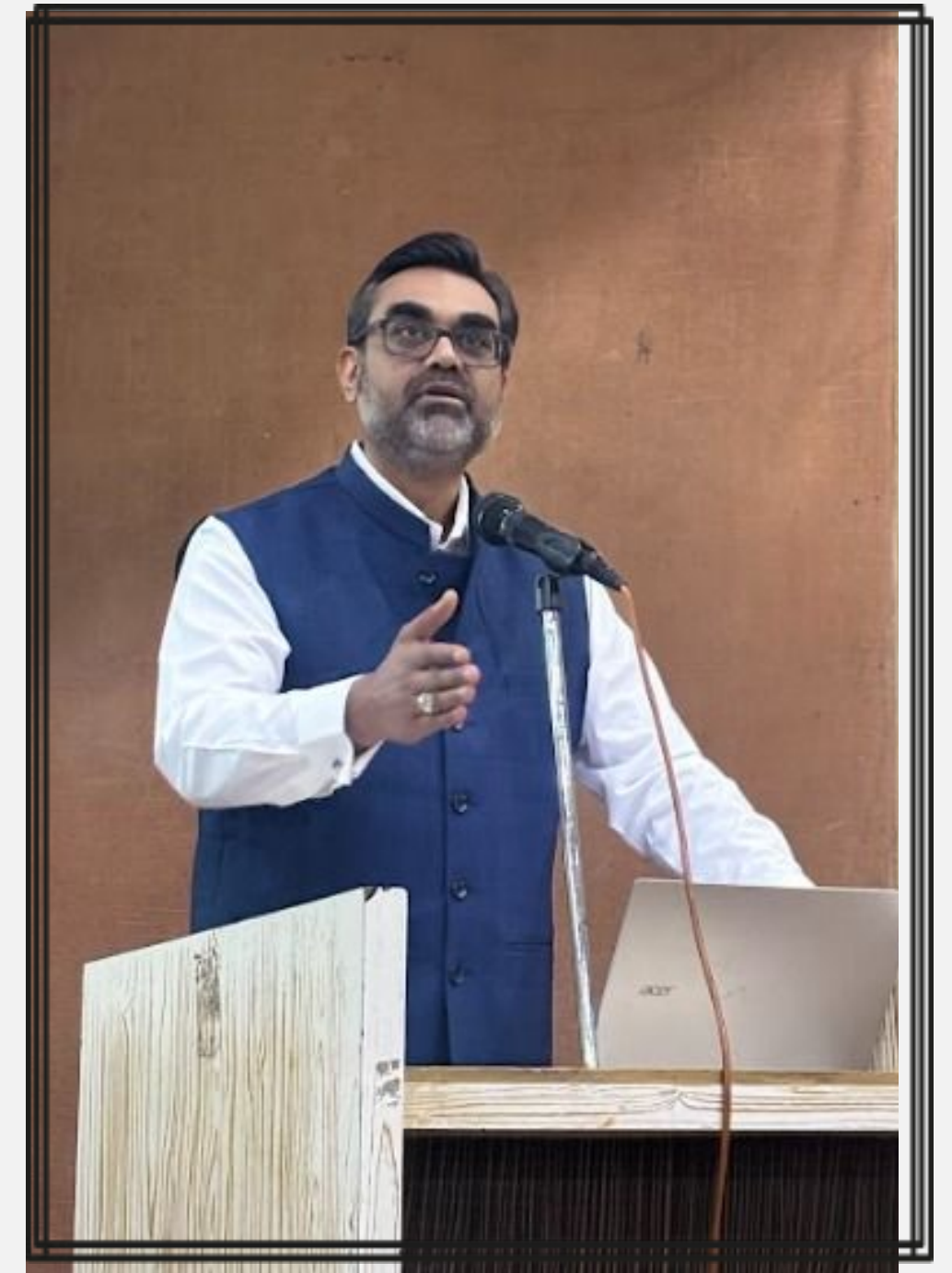
Industry – Academia Connects



Mr . Brian chiarella, FCAS
Liwes & Ellis
Actuaries and Consultants



Mr. Sheel Sawhney
Group COO at Brit Insurance
United Kingdom



Mr. Kulin Patel
Group CEO at
K. A Pandit

Industry Sessions

Mr Sunil Sharma

- President, Chief Actuary & CRO, Kotak Life Insurance.
- Ex – President, IAI & Council Member & Member Life Board, IFoA UK

Mr. Vighnesh Mehta

- Treasury counterparty risk team lead at GEVP Yes bank.

Mr. Kartikeya Kandoi

- Fellow CA and Fellow Actuary, India, UK, Sri Lanka

Mr. Hariharan Mani

- Managing Director, PwC AIMS India

Academic Sessions



**Mr. Eric
Zimmerman**

- Director, German Israeli Foundation for Scientific Research and Development



Mr. Gaurav Khemka

- Senior Lecturer, Australian National University



Ms.Chloe Zhang

- She is from Australian National University.



Dr. Pratibha Jain

- Founder and Managing Director at Eduaboard Consultant

Mega Industry Sessions

**Mr. Thomas
Mathew**

- Former Chairman and Managing Director LIC of India, BOD on various companies

Mr. D. Sivanandan

- Retired IPS Officer, BOD on various companies

Mr. Rajesh Khairajani

- Partner and Valuation Expert at KNAV International and Inde Global Advisory

Mr. JV Prasad

- Ex Director(Willis Towers Watson),Ex Appointed Actuary

ADVISORY BOARD



Pratibha Jain
Founder & Managing
Director, Eduabroad
Consultant
Education Counsellor,
Mumbai University
affiliated colleges.



D Sivanandhan
Board of Directors on
Various Companies, IPS
Officer (Retd.), Ex
Commissioner of Police



Rajesh Khairajani
Partner - KNAV
International,
Partner - Inde Global
Advisory
Valuation expert,
Speaker at Indo
American Chamber of
Commerce & NASSCOM



Tanveer Quraishi
Head – Analytics, Marsh
McLennan Global
Services India Private
Limited (MMGS)
Ex Senior Analyst –
Actuarial, WNS Global
Service.

ADVISORY BOARD



Thomas Mathew

**Board of Director (L&T
group of companies, LIC
of India, Canara HSBC
OBC L.I.C Ltd.)**



Nilesh Shah

**Managing Director, Kotak
AMC Ltd
Member, Prime Minister's
Economic Advisory
Council**



JV Prasad

**Ex- Director, Willis
Towers Watson
x Appointed Actuary &
Vice - President - ICIC
Lombard GIC.**



Sauvik Banerjee

**Global CEO Rezolve (UK,
US, Europe, India)
Ex CTO Tata Neu, CTO
TataCLiQ, SAP,
Accenture, Infosys,**

Aman Loharuka

Distance Learning

DIRECTOR – IAQS

- Qualified Life Insurance Actuary
- 5 + Years of Teaching Experience
- Bachelor of Commerce (University of Mumbai)



SUBJECT & OVERVIEW

MSc Semester-1

IAQS

SEMESTER-1 SUBJECT

Probability and Statistics

Financial Mathematics

Business Economics

**Applications of
IT- Basics &
Advance Excel**

**Fraud Analytics
and Prevention**

**Insurance -
Principles, Products
and Practices**

Financial Mathematics

Overview

- Financial products and its cashflows
- Measurement of interest
- Real and monetary interest rate
- Discounting and accumulating cashflows
- Annuities
- Equation of value
- Amortizing schedule/ Loan schedule
- Capital budgeting



Darshan Lodha

Associate of the Institute of Actuaries, UK

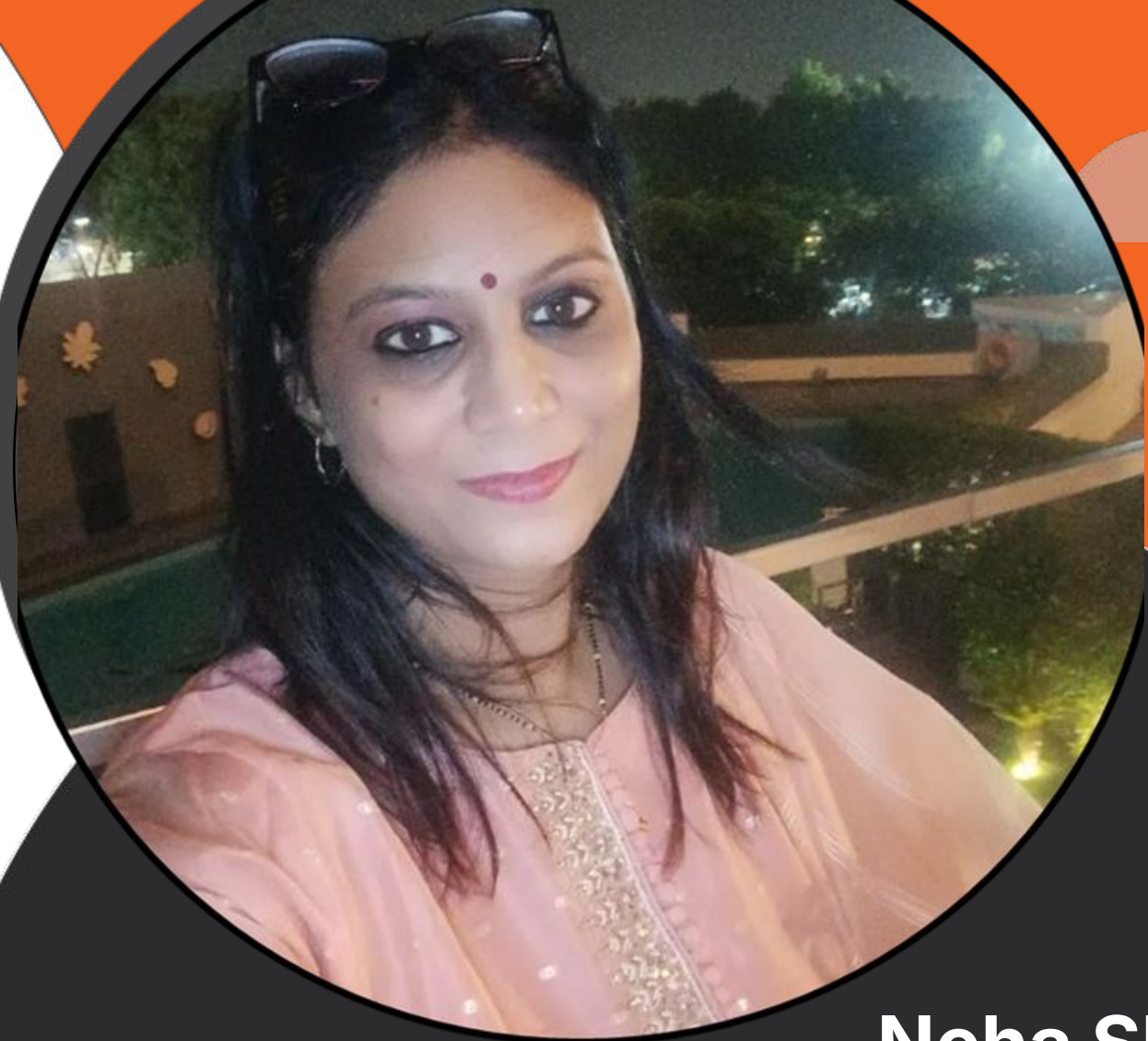
Cleared all actuarial exams from IFoA

BSc. Actuarial Science and Quantitative Finance

Business Economics

Overview

- Demand and Supply Analysis
- Market Structures
- Cost and Revenue Concepts
- Inflation and unemployment
- Trade and Exchange Rates
- Fiscal and Monetary Policy



Neha Sharma

18 years of experience in teaching Economics and International Business
Deep understanding of global markets and economic principles, honed through my work with prestigious institutions like the University of London and the London School of Economics

Life Insurance-Principles, Products and Prices

Overview

- Introduction to Insurance
- The Fundamental Principles of Life Insurance
- Life Insurance Products
- Group Insurance
- Product development
- Underwriting
- Pricing Elements



Vivek Datta

Director - Placements and Academics at IAQS

Qualified Actuary (FIA)

BSc Statistics (University of Mumbai)

Head - Academics & Research, IAQS

Ex - Senior International Consultant – Mercer

Singapore

Probability and Statistics

Overview

- Summarizing data
- Descriptive statistics
- Fundamentals of Probability
- Random Variables
- Theoretical discrete distributions
- Theoretical continuous distributions
- Generating Functions
- Joint Distributions
- Conditional Expectations
- Central Limit Theorem

**Bhavya Shah
and
Manav Badani**

Combined 8 + Years of Teaching Experience

Application of IT- Basics and Advance Excel

Overview

- Overview of Microsoft Excel
- Formatting and data analysis
- Pivot tables
- Writing formulas
- Conditional formatting and Goal seek
- Presenting data and Charts
- Auditing, Error identification, solving and review
- Financial Mathematics (using first principles)
- Overview of Advanced VBA
- Loops, Conditional Statements, and Data Handling in VBA



Aman Loharuka

- Qualified Actuary

Fraud Analytics and Prevention

Overview

- Types of Financial Crimes
- Fraud Detection Models
- Forensic Accounting
- AI in Fraud Analytics
- Risk Mitigation
- Regulatory Compliance



Bhavya Shah

Qualified General Insurance Actuary

5 + Years of Teaching Experience

Bachelor of Commerce (University of Mumbai)

LMS - User Interface

IAQS

Learning Management System (LMS)

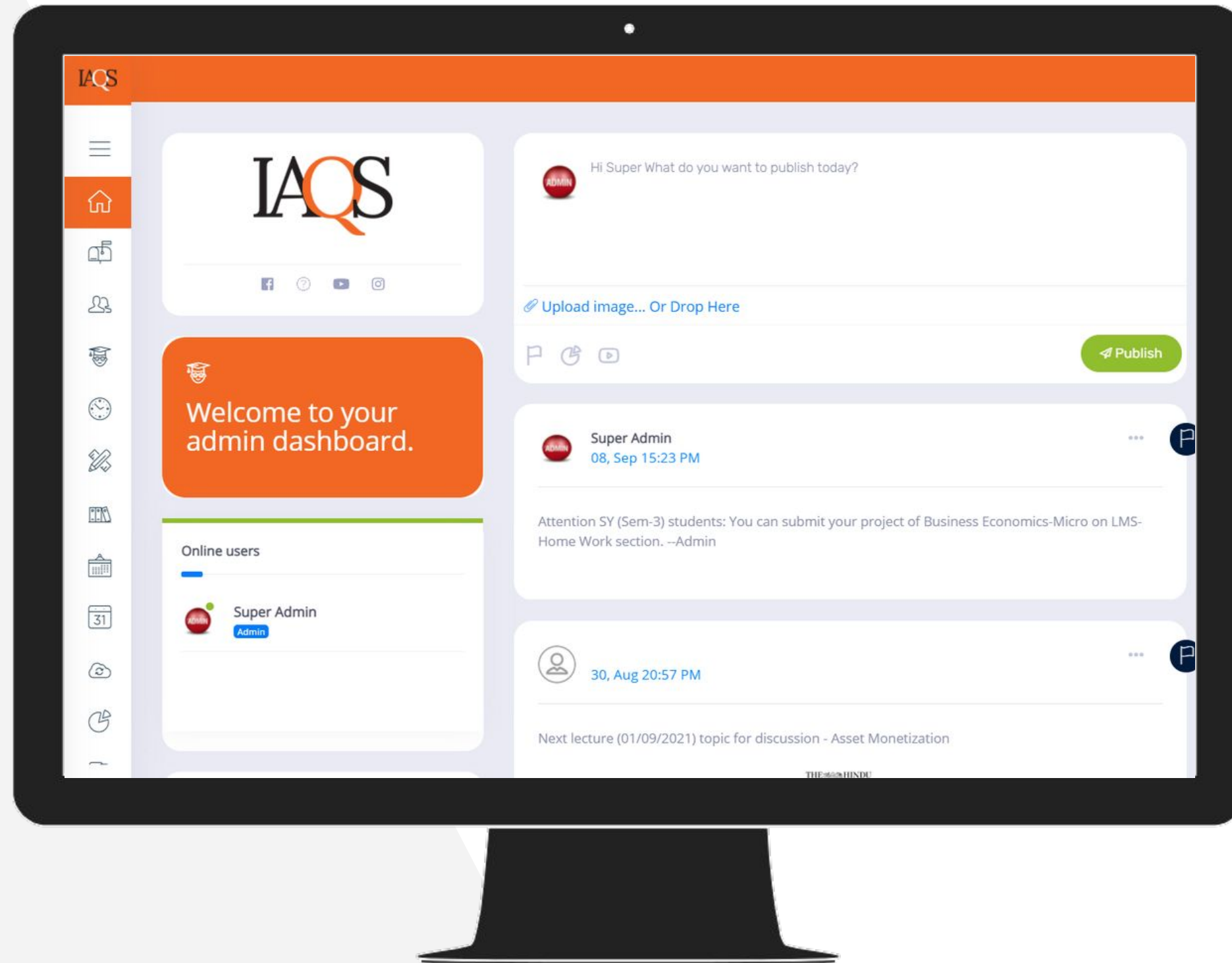
Sharing of Assignments, Notes and
PPTs

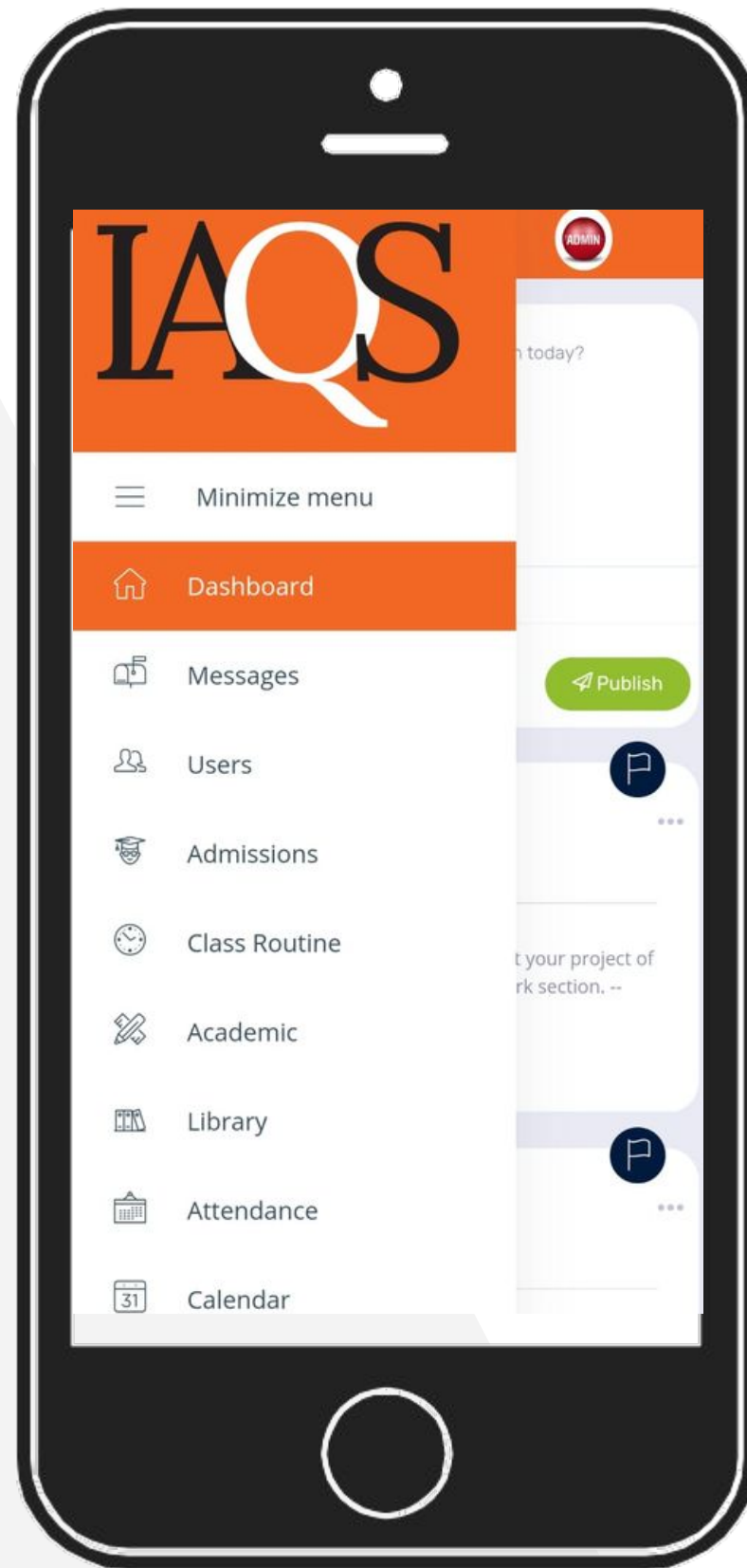
Recorded Lecture

Time-table

Updates and news

Classwork submission





IAQS LMS

Revisit, Rethink & Revise

LMS - Classroom

Classes based on subjects

The screenshot displays the IAQS LMS Classroom interface. The top navigation bar is orange and includes the IAQS logo, the text "F.Y.B.Sc (Semester 1)", and a dropdown menu. On the right side of the bar are icons for chat, notifications (65), and a user profile for "Super Admin Admin".

The main content area has a dark header with the IAQS logo and the text "Subjects (F.Y.B.Sc (Semester 1))" and "IAQS | Institute of Actuarial and Quantitative Studies". Below this is a section titled "SECTION A".

The main area contains a grid of subject-based classes. Each class card features the IAQS logo, the subject name, and the instructor's name with a profile picture. The classes are:

- New subject**: Create new subject (indicated by a blue circle with a plus sign).
- Probability & Statistics - 1 - A**: Kesavrao Entenika
- Life Insurance - PPP - A**: Aayush Sancheti
- Application of IT - Basics of Excel - A**: Aayush Dhoot
- Calculus - A**: Kesavrao Entenika
- Business Finance - 1 - A**: Harshwardhan Ranasaria
- Financial Mathematics - A**: Devarshi Shah

A vertical sidebar on the left contains various icons for navigation, including home, search, user, calendar, and document.

LMS - Classroom

Update related to material upload can be seen in stream

The screenshot displays the LMS Classroom interface for the course "Financial Mathematics - (A)". The top navigation bar includes a dropdown menu for the course and user information for "Super Admin". The main dashboard features a central stream of updates and several side panels.

Navigation Tabs:

- DASHBOARD
- CLASS WORK
- QUESTION BANK
- ONLINE EXAMS
- HOMEWORK
- FORUM
- MARKS
- LIVE

Central Stream:

- Update 1:** Posted by Super Admin on 17 Feb. 11:28AM. Title: FINANCIAL MATHEMATICS F.Y.B.Sc (Semester 1) "A". Content: Project Work Discusiion. Action: View forum.
- Update 2:** Posted by Super Admin on 17 Feb. 10:56AM. Title: FINANCIAL MATHEMATICS F.Y.B.Sc (Semester 1) "A". Content: Unit 1. Link: <https://drive.google.com/file/d/1-QCDohwS8jgWelbSgCK-JvDCnL7x-98s/preview>.

Left Panel:

- IAQS Logo:** Includes social media links for Facebook, YouTube, and Instagram.
- Subject activity:** A list of recent updates, including "Added New Forum Discussion" and "have created a new homework with the title Unit 1".

Right Panel:

- Teacher of the subject:** Devarshi Shah, devarshi@iaqs.in, Teacher.
- Students:** abc xyz, Roll ID: 123.

LMS - Classroom

Chapter wise material can be seen in classwork in organised manner

Financial Mathematics - Class Work
F.Y.B.Sc (Semester 1) "A"

DASHBOARD CLASS WORK QUESTION BANK ONLINE EXAMS HOMEWORK FORUM MARKS LIVE

Class Work

Chp 1 - Financial Products & Its Cashflows

Lecture 1_10 September 2020	15 Feb. 11:50AM
Lecture 2_15 September 2020	16 Feb. 12:32PM
Lecture 3_17 September 2020	16 Feb. 12:35PM
Presentation With Notes	16 Feb. 12:43PM
Presentation Without Notes	16 Feb. 12:44PM

Chp 2 - Measurement of Interest

Lecture Recordings

Lecture 4 to 13

16 Feb. 12:51PM

Chp 1 - Financial Products & Its Cashflows

Chp 2 - Measurement of Interest

Chp 3 - Real and Monetary Interest Rate

LMS - Classroom

Due date for submission will be shown in classes

Financial Mathematics - Homework

F.Y.B.Sc (Semester 1) "A"

DASHBOARD

CLASS WORK

QUESTION BANK

ONLINE EXAMS

HOMEWORK

FORUM

MARKS

LIVE

Homework

STATUS	TOPIC	TITLE	TYPE	DEADLINE	DELIVERED / UNDELIVERED	OPTIONS
Published	Practice Questions	Unit 1	Online text	02/25/2021	0 / 1	
Published	Chp 2 - Measurement of Interest	Extra Practice Questions	Online text	02/20/2021	0 / 1	

Topics

Chp 2 - Measurement of Interest	
Practice Questions	

General Rules

- **Compulsory attendance is 50% as per university norms**, however 90% is advisable to understand and make the most of the curriculum.
- All students must have the camera turned on for the attendance to be counted
- Students falling under the defaulters list, are supposed to fill the low attendance undertaking form at the end of the month and submit it on the Defaulters Undertaking Submission Form link.
- **Medical certificates/ proofs for attendance/** leave need to be directly submitted on the leave form. No emails for the same will be accepted.
- For every group project, a group leader will be appointed in every group. He will conduct all the meetings and divide work amongst the group members. At the time of submission, this needs to be with the admin team. Non – participation in the project will be taken count of and such students will be marked accordingly

Point of Contact

For All Queries related to Lectures, LMS, Exams Administration and others - single point of contact:

- Vishal Razdan – vishal[@iaqs.in](mailto:vishal@iaqs.in) – Student Coordinator

Escalation

- Aman Loharuka - aman@iaqs.in

Escalation Level 2 – Akash Sir – akash@iaqs.in

Snapshot of Assessment

Snapshot of Assessment

Internal Examination	Marks	External Examination	Marks
Attendance	5	Semester Exams	60 marks
Class Test	10 - 2*5		
Presentation and Case Studies	15 or 25*		
Internal Test	10 or 0*		
	40 marks		60 marks

* Application of IT subjects shall have a 35 marks project/ case study with no internal exams.

Projects

Financial Mathematics + Excel	Probability & Statistics + Fraud Analytics	Economics	Insurance
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There will be 4 projects for Semester 1

Tentative Academic Calendar

Tentative Academic Calendar

Particulars	Tentative Dates
Semester 1 starts	10 th August 2025
Assignment test 1	15 th To 18 th September 2025
Internals	13 th To 16 th October 2025
Diwali break	17 th to 20 th October 2025
Assignment test 2	12 th to 15 th November 2025
Portion Completion	1 st to 3 rd December 2025
External exams	13 th to 20 th December 2025
Immersion sessions (At RRU Centre)	22 nd to 24 th December 2025

Tentative Exam Calendar

Subject	Date
Probability & Statistics	13 th December 2025
Economics	15 th December 2025
Fraud Analytics	16 th December 2025
Financial Mathematics	18 th December 2025
Excel	19 th December 2025
Insurance	20 th December 2025

IAQS Clubs

Beyond The Classroom

Experience our students' vibrant college life!
Scan the QR code on the back to dive into their adventures and stories!

CULTURAL COMMITTEE



TED X IAQS



ACTUARIAL SOCIETY



E-CELL



FINANCE SOCIETY



COGNIZANCE



EMERGENCY RISK CENTRE

IAQS | Emerging Risks
Research Centre

Kaushik Ashwini

Associate Director – RRU



Tanmeet Kaur

Principal Actuary at Zamara MENA,
Member of IFoA Middle East Committee

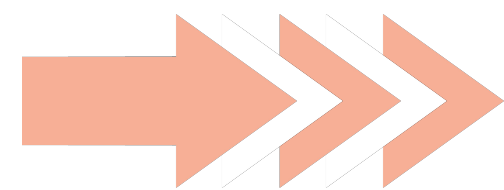


WELCOME

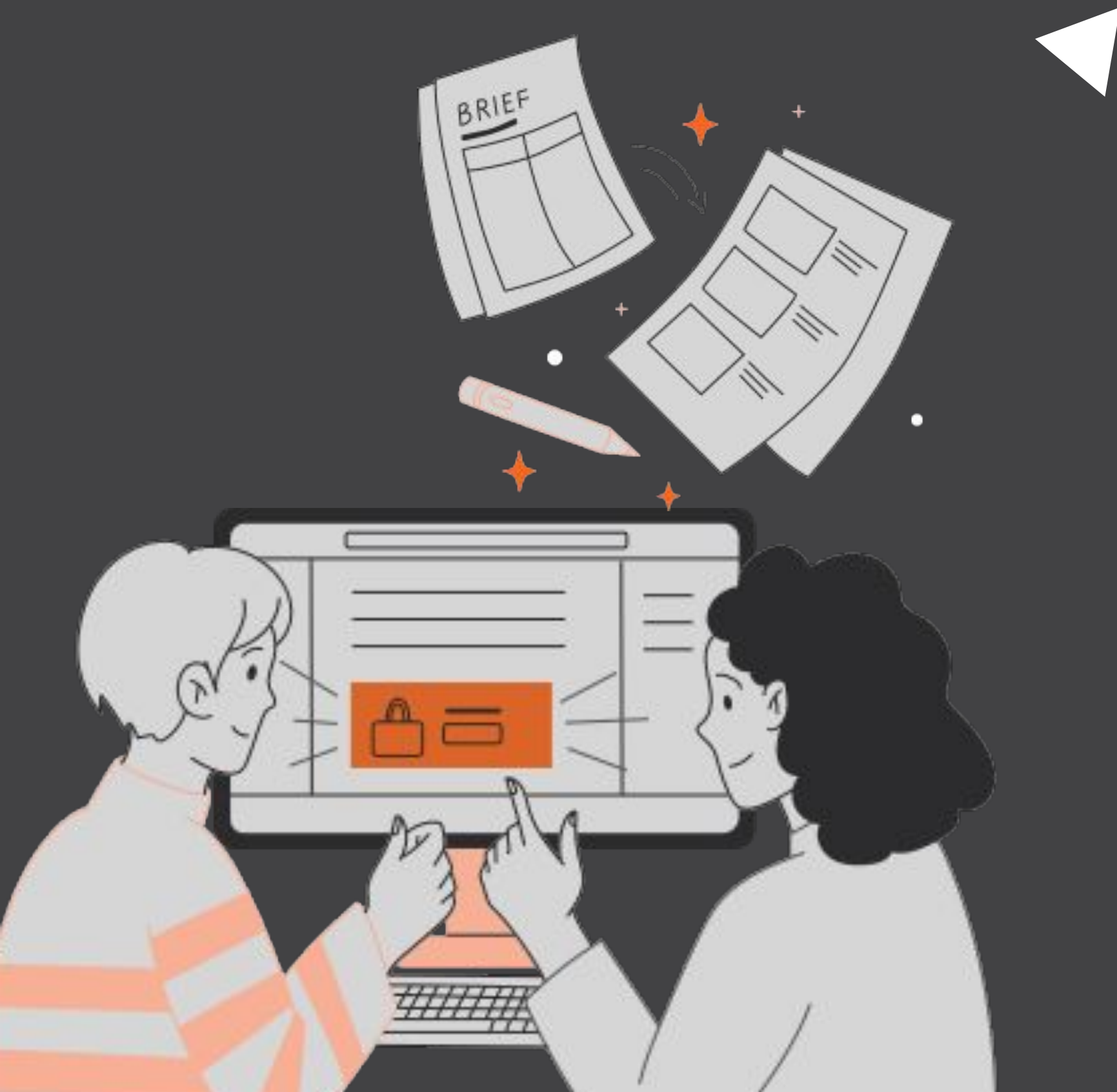
TO THE

IAQS

IAQS



The Journey Begins.....



THANK YOU



Contat Us :



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Yadav Nagar, Andheri West,
Mumbai, Maharashtra 400058.