CM 1

Actuarial Mathematics

Syllabus for 2021

About

Ac. Doc, is an educational establishment, founded in 2020, which works for promotion and development of the Actuarial Profession. Ac. Doc provides you with an opportunity to positively influence your future in the Actuarial Profession.

We are providing mentoring and coaching programs for students aspiring to become an Actuary. Our teaching and mentoring methods are remarkably different from conventional way of teaching. Our teaching mode is entirely difference from others, we provide test series-oriented mentoring. This helps students to improve their performance.

We are the first Actuarial Academy in Kerala. Our vision was to making 100+ actuaries in Kerala within 5 years. A student who interested in Mathematics, Statistics and Economics are more suitable for the actuarial professional. This is great job and also a social designing platform. We welcome to all be the part of Ac.Doc. Make change, with your career.

We are providing three type of course, first for beginners in Actuarial world. Second for bachelor holders outside actuarial stream and third type for professional actuarial career for postgraduates and professionals.

Why you study CM 1?

Actuarial Mathematics (CM1) provides a grounding in the principles of actuarial modelling, focusing on deterministic models and their application to financial products. It equips the student with a knowledge of the basic principles of actuarial modelling, theories of interest rates and the mathematical techniques used to model and value cashflows which are either certain or are contingent on mortality, morbidity and/or survival. The subject includes theory and application of the ideas to real data sets using Microsft Excel.

Study Plan

- Spent daily 3-4hrs
- Do more question paper
- Do revision
- learn, relearn, revision, test, revision and mock test.
- find weakness and strength of the subject.

Syllabus

1. Data and basics of modelling (10%)

2. Theory of interest rates (20%)

3. Equation of value and its applications (15%)

4. Single decrement models (10%)

5. Multiple decrement and multiple life models (10%)

6. Pricing and reserving (35%)

These weightings are indicative of the approximate balance of the assessment of this subject between the main syllabus topics, averaged over a number of examination sessions.

The weightings also have a correspondence with the amount of learning material underlying each syllabus topic. However, this will also reflect aspects such as:

• the relative complexity of each topic and hence the amount of explanation and support required for it.

• the need to provide thorough foundation understanding on which to build the other objectives.

• the extent of prior knowledge that is expected.

• the degree to which each topic area is more knowledge- or application-based.

Connect With Us

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