



**CAREER GUIDANCE PREPARED FOR  
Ms. SUBASREE S, XII**



# **Career Goal**

## **Study Abroad – Australia**

### **Actuarial Science**

**Prepared for**  
**Ms. SUBASREE S, XII**

**(English Core, Economics, Business Studies, Accountancy, Marketing)**

**By**

**Sivakumar Narayanasamy, Sangford Schools.**



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**TOP 25 UNIVERSITY  
RANKING LIST - AUSTRALIA  
Don't look at any other  
Universities below  
10 (ranking from 34 to 175)  
Ranking.**



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Rank	Name Country/Region	No. of FTE Students	No. of students per staff	International Students	Female:Male Ratio
34	University of Melbourne 📍 Australia	49,588	23.8	47%	58 : 42
44	Monash University 📍 Australia	58,725	42.5	41%	57 : 43
53	The University of Queensland 📍 Australia <a href="#">Explore</a>	41,372	34.2	41%	55 : 45
=54	The University of Sydney 📍 Australia	45,853	19.0	45%	58 : 42



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62	Australian National University 📍 Australia	16,758	14.6	51%	52 : 48
=71	UNSW Sydney 📍 Australia <a href="#">Explore</a>	45,133	36.3	40%	47 : 53
88	University of Adelaide 📍 Australia	23,102	32.8	32%	49 : 51
=131	The University of Western Australia 📍 Australia	18,405	21.3	28%	49 : 51
133	University of Technology Sydney 📍 Australia <a href="#">Explore</a>	27,481	35.1	31%	50 : 50
175	Macquarie University 📍 Australia <a href="#">Explore</a>	30,561	69.0	27%	52 : 48
201–250	Curtin University 📍 Australia <a href="#">Explore</a>	29,999	20.8	31%	52 : 48



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201– 250	University of Newcastle 📍 Australia	24,363	29.5	18%	57 : 43
201– 250	Queensland University of Technology 📍 Australia <a href="#">Explore</a>	35,278	37.9	17%	53 : 47
201– 250	Western Sydney University 📍 Australia	36,033	40.3	22%	58 : 42
201– 250	University of Wollongong 📍 Australia <a href="#">Explore</a>	17,440	29.1	27%	54 : 46
251– 300	Australian Catholic University 📍 Australia	23,728	39.1	15%	75 : 25
251– 300	Bond University 📍 Australia	3,214	10.9	39%	54 : 46
251– 300	University of Canberra 📍 Australia	10,785	35.5	26%	n/a



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251–300	Deakin University 📍 Australia	43,080	33.9	25%	58 : 42
251–300	Griffith University 📍 Australia <a href="#">Explore</a>	35,900	32.9	17%	59 : 41
251–300	La Trobe University 📍 Australia <a href="#">Explore</a>	21,663	27.4	33%	63 : 37
301–350	Flinders University 📍 Australia	17,027	27.9	36%	65 : 35
301–350	RMIT University 📍 Australia	32,692	23.6	34%	48 : 52
301–350	University of South Australia 📍 Australia <a href="#">Explore</a>	23,490	32.9	21%	58 : 42
301–350	University of Southern Queensland 📍 Australia	12,150	26.0	18%	62 : 38



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**COURSE & SUBJECT in AUSTRALIAN  
UNIVERSITY**



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- **Arts & humanities**
  - Art, Performing Arts & Design
  - Languages, Literature & Linguistics
  - History, Philosophy & Theology
  - Archaeology
  - Architecture
- **Social sciences**
  - Sociology
  - Geography
  - Politics & International Studies (incl Development Studies)
  - Communication & Media Studies
- **Clinical, pre-clinical & health**
  - Medicine & Dentistry
  - Other Health
- **Life sciences**
  - Agriculture & Forestry
  - Sport Science
  - Biological Sciences
  - Veterinary Science
- **Law**
  - Law
- **Computer science**
  - Computer Science
- **Engineering & technology**
  - Electrical & Electronic Engineering
  - Chemical Engineering
  - Mechanical & Aerospace Engineering
  - General Engineering
  - Civil Engineering
- **Education**
  - Education
- **Psychology**
  - Psychology
- **Physical sciences**
  - Geology, Environmental, Earth & Marine Sciences
  - Physics & Astronomy
  - Mathematics & Statistics
  - Chemistry
- **Business & economics**
  - Economics & Econometrics
  - Business & Management
  - Accounting & Finance





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### **Australia**

Consistently ranked among Top 10 Countries to Live In by US News, Australia presents pristine environments with about three people per sq km (compared to India's 455!). High participation in local and international sporting offers a fun and healthy lifestyle. Annual tuition is almost as high as the US but the three-year format makes it more affordable. Australian universities are ranked high internationally, but the best value you get is within Australia itself. Students do not see significant financial advantages in returning to India with an Australian degree.

**Visa and job prospects:** Australia encourages immigration and Indians comprise about 2% of the population. Their five-year Skilled Migration Programme — like PR — favours software engineers, doctors, nurses, physiotherapists, web developers, and salespeople. You can apply for citizenship after four years of PR.



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### **Study Australia**

Study in Australia is the Australian Government's official resource for international students. We are the trusted source of information for prospective international students, their families to learn more about Australia as a place to study.

<https://www.studyinaustralia.gov.au/english/why-australia/about-us/About-us>

### **Universities and Higher Education**

Australian universities provide international students with choices and opportunities across all study disciplines.

<https://www.studyaustralia.gov.au/english/study/universities-higher-education/universities-and-higher-education>



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### **Latest travel and visa advice**

**All International students and Temporary Graduate visa holders are welcome to travel to Australia.**

<https://www.studyaustralia.gov.au/english/latest-travel-and-visa-advice/latest-travel-and-visa-advice>

### **Step-by-step guide to visa and entry requirements**

Step-by-step information on how to apply for a student visa and Australia's entry requirements.

<https://www.studyaustralia.gov.au/english/latest-travel-and-visa-advice/updates/step-by-step-guide-to-visa-and-entry-requirements>

### **Scholarships to study in Australia**

There are many grants, scholarships and bursaries available to assist you financially with your studies in Australia.

<https://www.studyaustralia.gov.au/english/study/scholarships/scholarships-to-study-in-australia>



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### English language requirements

How to demonstrate your proficiency in English.

You have to provide evidence of your English proficiency to be able to study in Australia.

### Your first language is not English, English as Second Language

If English is not your first language, you will need to provide proof of your English proficiency before you can commence your studies in Australian University.



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### English language skills tests we accept:

- International English Language Testing System (IELTS) Academic
- Test of English as a Foreign Language: internet-based (TOEFL iBT)
- Pearson Test of English (PTE) Academic
- Cambridge English C1 Advanced (formerly CAE) and Cambridge English C2 Proficiency (formerly CPE)\*
- Please note that for IELTS 5.0, the following equivalents are accepted: PTE 42, TOEFL IBT 52, or Cambridge CAE 41.



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# Consultant who work with Australian Universities

### IDP Education (Adyar)

Ground Floor, TVH Quadrant, New No 55, LB Road Padmanabha Nagar

Adyar, Tamil Nadu, India 600020

+91 (44) 4517-8888

### TC Global (The Chopras Group) (Chennai)

Apex Plaza, 5th Floor No. 3, Nungambakkam High Road

Chennai, Tamil Nadu, India 600034

+91 8800-278900

### Edwise (Chennai)

1st Floor, Pioneer Sudarshan Plaza, 9 Mohan Kumaramangalam Street, Nungambakkam High Road

Chennai, Tamil Nadu, India 600034

+91 9884-711600

### Planet Education - Chennai

Sterling Rd B-1 Seetha Nagar, Nungambakkam

Chennai, Tamil Nadu, India 600034

+91 9176-607666



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## **IDP Education (Chennai)**

**1st Floor, KPR Towers New No 2/1 Subba Rao Avenue, 1st Street, College Road, Nungambakkam**

**Chennai, Tamil Nadu, India 600006**

**+91 (44) 6173-8888**

## **Global Opportunities (Chennai)**

**6 D, Eldarado Complex, 112 Nungambakkam High Road, Nungambakkam**

**Chennai, Tamil Nadu, India 600034**

**+91 (44) 4968-7777**



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**Institute of Actuaries of India**  
Statutory body established under an Act of Parliament

# ACTUARY

**India: 9000 actuaries for 1.3 billion citizen**

**USA: 37000 actuaries for 320 million citizen**

**CA vs. Actuary:** CA's job is to assess financial health of an organizations basis the P/L statements, actuaries are statistician who utilise past data to predict the future and financial risks.

**Actuaries help companies evaluate future risks and design effective policies to tackle risks.** In the insurance field, actuarial work involves assessing financial risks and valuations, product designing, pricing and compliance reporting.





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“Actuary” means a person skilled in determining the present effects of future contingent events or in

- Finance modelling and
- Risk analysis

in different areas of insurance, or calculating the value of life interests and insurance risks, or designing and pricing of policies, working out the benefits recommending rates relating to insurance business, annuities, insurance and pension rates on the basis of empirically based tables and includes a statistician engaged in such technology, taxation, employees’ benefits and such other risk management and investments and who is a fellow member of the Institute.



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# ACTUARIAL SCIENCE

**Actuarial science** is the application of **mathematical skills** to social sciences for solving the important issues for insurance industry, government, business and academic research.

Actuaries use statistics to predict uncertain events such as insurance policy income, pension scheme pay-outs and stock market performance.

Being actuarist is a good insurance for those who look at numbers, know how to analyses risk.

Are you the kind of person who loves crunching numbers and solving mathematical problems?

If yes, the unusual profession of an actuary is for you. A foreign degree in it is only going to appreciate in value.

Actuarial science is the discipline of applying advanced mathematical and statistical modelling software techniques to assess risk in the insurance and finance industries, to forecast the cost and probability of an event.



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According to the latest survey conducted by government of India, the demand for professionals in the actuary segment will see a 26% growth between 2012 and 2022, much higher than average.

**ACTUARIAL SCIENCE professionals are among the highest paid in India**, the US, the UK, and New Zealand. Their annual average salary in India goes up to Rs 66 lakh, and their demand is going to increase in the coming years.

# I WANT TO BECOME Actuaries



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# WHAT I WANT TO CLEAR?

## Actuarial Common Entrance Test (ACET)

Institute of Actuaries of India had started conducting its Entrance Exam which is ACET from January 2012. There is a change in the structure of ACET examination with effect from 16th July 2019 would be as under:

### The Structure of ACET Examinations is:

1. ACET is a 3 hour, 100 marks online exam which has 70 multiple choice questions with one correct answer for each question
2. The distribution of questions will be:
  - a. 45 questions — 1 mark each
  - b. 20 questions — 2 marks each
  - c. 05 questions — 3 marks each
3. After successful registration, students will be able to download the sample question paper for the examination. However, the names of the reference books are available under ACET syllabus tab for the students.



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4. The Allocation of Marks will be as under:
  - a. Mathematics - 30 marks
  - b. Statistics - 30 marks
  - c. Data Interpretation - 15 marks
  - d. English - 15 marks
  - e. Logical Reasoning - 10 marks
5. ACET will be conducted in 24 exam centres in India.
6. ACET will be conducted in a single day with one slot.
7. There will not be any negative marking for incorrect answers.
8. The Pass mark for ACET Examination is 50%.

### **What is the mode of examination? Is it online or offline?**

It is a computer based examination where the examinees have to be present at their chosen testing centre administered in 24 centres across India.



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**What is the structure of Exam? e.g. Duration, distribution of questions, marks and others.**

The exam will have multiple choice questions with one correct answer for each question. The exam will be conducted at a pre-selected test centre at a specified time. The exam will be a three hour computer based exam of 100 marks which will have 70 multiple choice questions with one correct answer for each question.

**Syllabus & The allocation of Marks will be as under:**

1. Mathematics – 30 marks
2. Statistics – 30 marks
3. Data Interpretation – 15 marks
4. English – 15 marks
5. Logical Reasoning – 10 marks



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# ELIGIBILITY

### **What is the eligibility criterion?**

The only eligibility criterion is that the examinee must have appeared 10+2 examination or an equivalent examination with English as one of the subjects at 10 + 2 level. Nevertheless, it is expected that many of those who are already in education at higher levels and also those working and having qualifications in mathematical subjects would take up the examinations. For example engineering students or professionals, chartered and cost accountants, company secretaries, management graduates, degree holders in mathematical and statistical sciences etc are expected to take this exam.



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# I WANT TO PURSUE?

B.Sc., Actuarial Science

M.Sc., Actuarial Science

Integrated M.Sc., Actuarial Science

### What does Actuaries do?

#### **a) Actuaries Make Financial Sense of the Future**

Actuaries are experts in assessing the financial impact of tomorrow's uncertain events. They enable financial decisions to be made with more confidence by:

- Analysing the past
- Modelling the future
- Assessing the risks involved, and
- Communicating what the results mean in financial terms.

#### **Who can become an Actuary?**

- An HSC passed, graduate, post graduate, Engineer, MBA, CA, ICWA etc with sound knowledge in Mathematics & Statistics
- Loves logic and problem solving
- Good communicator
- Excellent business awareness





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# WHERE I CAN STUDY?

## Bachelor of Science in Actuarial Science

1. Amity School of Insurance, Banking and Actuarial Science (ASIBAS)
2. Amity University BSc
3. Yashwantrao Chavan Maharashtra Open University BSc
4. Chandigarh University (Entrance Exam) BSc
5. School of Business, University of Petroleum and Energy Studies

## Master of Science in Actuarial Science

6. Madras University (MSc)
7. Department of Mathematics & Actuarial Science, B.S.ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE & TECHNOLOGY, Chennai
8. Patna University
9. Kerala University



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# WHERE I CAN WORK?

- . Life Insurance
- . General Insurance
- . Health Insurance
- . Reinsurance Companies
- . Pension Funds
- . Consultants
- . Investments
- . Government
- . Academics
- . Risk Management

# OPPORTUNITY

- Nationally
- Globally



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UNIVERSITY OF MADRAS

சென்னைப் பல்கலைக்கழகம்

( Estd.1857, State University NAAC 'A' Grade, MHRD NIRF RANKINGS Universities Ranking 2019: 20, UGC-UPE )

University of Madras is a public state university in Chennai, Tamil Nadu, India. Established in 1857, it is one of the oldest universities in India after University of Calcutta.

**M.A Corporate Sociology (Self Supportive Course).**

**M.Sc Statistics**

**M.Sc Actuarial Science (self-supportive)**



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Pondicherry University is a central university in Puducherry, India. Founded in 1985 by the Government of India, the university is a collegiate university with jurisdiction spread over the Union Territories of Puducherry, Lakshadweep and Andaman and Nicobar Islands. It has 6500 on campus students. It has introduced innovations like the Choice-based Credit System.

Department of Statistics

M.Sc. Statistics (Regular)

**M.Sc. Statistics (Five year Integrated)**

M.Sc. Quantitative Finance

Ph.D. in Statistics (Full-time and Part-time)

P.G. Diploma in Statistical and Research Methods

(Add on Course)



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### MSc in Economics

This programme is typically, a two-year programme following a semester system. It can be extended up to a maximum of three years under a slow track system. To earn the MSc degree, a student is required to earn 48 credits comprising core and elective courses.

The core courses of 24 credits include the core course sequences comprising Microeconomics I & II, Macroeconomics I & II, and Econometrics I & II as also Mathematics for Economists and Development Economics. Each course is of 3 credits and all these together account for 24 credits.

For elective courses, students will be required to choose 24 elective course credits from several optional courses offered in the subsequent semesters.

On completion of MSc at IGIDR, students can enrol into the PhD in Development Studies as per rules in the Graduate Programme Rule Book applicable to them.



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PSGR  
Krishnammal College for Women



B.Com. Actuarial Management