

# Education



**FOR BETTER DECISION MAKING**  
A new study has found that education can be leveraged to help enhance an individual's economic decision-making quality or economic rationality.

Dear Madam,  
I have completed my BSc horticulture degree. Now I would like to continue my studies by doing MS. Which are the good universities and courses that I can apply for? I would also like to know about the scholarships universities offer, apart from private scholarships. Can you also throw light on the job opportunities overseas?  
Sanjana Agadi

Dear Sanjana,  
The admission requirement would be a good percentage in your Bachelors and an English language test like the IELTS. For the US, you would be required to also take the GRE. Coventry University UK, Leibniz University, Humboldt University and Technical University of Munich in Germany, Massey University New Zealand, University College Cork Ireland, University of Manitoba Canada, Warsaw University of Life Sciences Poland are some of the universities that offer Master's degree in Horticulture. Most universities in the US like Arizona State University, Penn State University, Michigan State University and UK Universities like Sheffield, Birmingham, Edinburgh etc., offer programmes in Landscape Architecture. Apart from the university offered scholarships, you can also apply to external agencies like the Inlaks Foundation in India that fund students who hold offers from reputed universities. At the moment, countries that are offering job opportunities and long-stay work visas are New Zealand, Ireland and Canada.

Dear Madam,  
My son has completed BE in Industrial Engineering and Management this academic year. After finishing his graduation, he has completed his CEH (Certified Ethical Hacker) as he showed interest in pursuing his job in Cyber Security. Although initially, he was interested in pursuing his MS outside, as many of my friends suggested him to work for some time before pursuing higher education, he now wants to take up a job. I seek your suggestions on:  
■ Is it advisable to pursue his interest in Cyber Security or should he continue higher studies in Industrial Engineering and Management?  
■ Which is better for his

## STUDY ABROAD

Uma Aswani

### Consider post-study work options



**subject - MBA or MS? If MS, which subject is good? And which country is good for each course?**  
Subhas

Dear Subhas,  
If your son wants to pursue an MS now, I would recommend he continue in the same line of his previous study - Industrial Engineering. If he is enjoying working in Cyber Security, then let him continue working for a few more years and then go abroad for an MBA programme. Most of the good universities need three to five years of experience for an MBA. As far as country selection goes, you have fine universities in every country. What is important is post-study job opportunities, long-stay visas, work permit, tuition fees, scholarships, living expenses etc. For details, visit [www.umaaswani.com](http://www.umaaswani.com).

Dear Madam,

**My husband is BE Computer Science and has almost 15 years of experience in software development. Please suggest some courses abroad that will help him in his career growth (technical or management), with fund support.**  
Sonal

Dear Sonal,  
I would suggest an MBA since he has many years of work experience. MBET (Masters in Business, Entrepreneurship and Technology) is another course he could consider. Fund support will depend entirely on his credentials. If he studies in countries like Australia, New Zealand or UK, his programme will be for a duration of one year. If he studies in other countries the duration would be for two years. While UK offers an excellent education for a very reasonable fee; post-study work is not easy there. US is another

country which has so many universities to choose from. If he is lucky in finding a job post study, he will be able to stay back. If your husband is looking to work for a few years in the country where he studies; then, New Zealand, Canada and Ireland are good.

**Dear Madam, I have done my Master's degree in Dental Sciences from a reputed college in India. I wish to go and work in Canada, UK or Australia. But I was told that we have to take several exams to get a licence to practice there. Can you explain the requirements? And I am more interested in pursuing academics under a university rather than general practice. Can you suggest any other suitable countries for the same?**  
Kiran

Dear Kiran,  
If you are interested in aca-

demics rather than practice, you need to only write the IELTS exam. On the other hand, if you wish to practice, you would need to write NDEB (National Dental Examining board) for Canada, ORE (Overseas registration exam conducted by British Dental Council) for UK and ADC (Australian dental examination) for Australia. You could also consider pursuing a PhD in one of these specialisations: Endodontics, Periodontics, Prosthodontics, Dental Material Science, Dental Implantology, Orthodontics, Oral Pathology, Paediatric Dentistry, Dental Technology, Primary Dental care, Public Health and Dentistry etc. It is advisable to have two years of clinical practice before you apply for a PhD.

**Dear Madam, I am in the third year of Mechanical Engineering. I want to pursue my MS degree abroad. Could you suggest some universities, cost estimation and fees?**  
Elroy

Dear Elroy,  
A Master's in Mechanical Engineering will not cost you very much in a country like Germany. Most public universities there are free. The total fees and living expenses put together will be in the range of Rs 20 to 30 lakh in the UK, Rs 20 lakh in New Zealand, Rs 25 to 35 lakh in Australia, Rs 35 to 40 lakh per year in Singapore and 40 to 50 lakh per year in the US, MIT, Georgia Tech, Stanford, Cambridge, Imperial College London, Sheffield, Leeds, Southampton, Technical University of Munich, TU Delft, RWTH Aachen, University of Stuttgart, University of Melbourne, University of Toronto, University of Tokyo and National University of Singapore are some of the best for Mechanical Engineering. Scholarships and Graduate assistantships are offered to students who have a high GPA, good GRE scores, published research work etc.

**Prof Uma Aswani is an educationist and consultant based in Bengaluru.**

Send in your queries to Education, Deccan Herald 75, MG Road, Bengaluru-560001 or e-mail us at [dheeducation@deccanherald.co.in](mailto:dheeducation@deccanherald.co.in) with 'Study Abroad' in the subject line.

## BULLETIN BOARD

### Public health course

IHM University, in cooperation with the Johns Hopkins University, USA offers a degree in Master of Public Health (MPH). For further details, visit [www.ihm.edu.in](http://www.ihm.edu.in).

### Diplomacy & International Security

A new course in Diplomacy & International Security has been launched at the University of Strathclyde. The MSc course will cover a broad range of international subjects in History, Politics and Law. It will provide grounding for careers in areas including government, non-governmental organisations, international agencies, journalism, think tanks and law. For further information, <mailto:hass-pg-enquiries@strath.ac.uk>; <https://bit.ly/2Ac2i8s>.

### Customer Service internship

Nearbuy, a discovery and transaction platform, is hiring interns for Customer Service profile in Bengaluru. Students proficient in English (spoken & written) can apply by October 31. The stipend is Rs 15,000 per month. Apply at: <http://bit.ly/DH-311>.

### Social Media Marketing internship

eLitmus, an evaluation-based organisation in the recruitment, is hiring interns for Social Media Marketing profile in Bengaluru. Students with relevant skills and interest can apply by October 24. The stipend is Rs 3,000 per month. Apply at: <http://bit.ly/DH-312>.

### Digital Marketing internship

Troly Technologies, a travel-tech company, is hiring interns for Digital Marketing profile in Bengaluru. Students having knowledge of MS-Office and proficient in English can apply by October 22. The stipend is Rs 7,500 per month. Apply at: <http://bit.ly/DH-313>.

### Content Writing internship

ADP Foundation, a non-profit organisation, is hiring interns for Content Writing profile in Bengaluru, Delhi, and Mumbai. Students skilled in creative writing can apply by October 23, 2018. The stipend is Rs. 2,000-3,000 per month. Apply at: <http://bit.ly/DH-314>.

### Distance learning programme

Jain University announces its partnership with Schoolguru Eduserve to launch its premium Open Distance Learning program with Online Learning. For details, log on to [www.jainuniversity.ac.in](http://www.jainuniversity.ac.in).

### Call for papers

CUTS International, in association with CUTS Institute for Regulation & Competition, has been publishing biennial reports on the state of competition and regulation in India. The reports, popularly known as ICRR (Indian Competition and Regulation Report), are designed to undertake review of level of competition and regulation to assess functioning of markets in the country. The theme for the forthcoming ICRR is: Digital Economy - hitting the reset button on competition and regulatory



governance. CUTS and CIRC invite papers to be published in the ICRR 2019. Interested scholars and practitioners are invited to submit a 500-word abstract along with a brief CV of the author, by October 31, 2018. For the list of topics and further queries, contact Nimra Khan ([nkh@cuts.org](mailto:nkh@cuts.org)) and Ujjwal Kumar ([ujk@cuts.org](mailto:ujk@cuts.org)).

### Hospitality management

Les Roches Global Hospitality Education is accepting applications for its Post-graduate Diploma (PGD) in International Hospitality Management, available in Switzerland, Spain and China. The next intake is in February 2019. Application deadline is November 30, 2018. For more information and registration, log on to: <https://bit.ly/2AcpOIM>.

### India Scholars Program

College Board has announced the launch of College Board India Scholars Program. Students who take the SAT and score highly will be recognised for their achievement, while low-income, high-achieving students can earn full-tuition scholarships to Indian member universities of the India Global Higher Education Alliance. For details, visit [www.buddy4study.com/collegeboard](http://www.buddy4study.com/collegeboard).

### BA Urban Studies

The University of Sheffield, UK is inviting applications for BA Urban Studies course starting in September 2019. This three-year course gives students knowledge of planning while offering the freedom to study a broader range of topics. For further information, contact - [usp@sheffield.ac.uk](mailto:usp@sheffield.ac.uk); <https://bit.ly/2CjZt6X>.

### PG Diploma in Data Science

Manipal Prolearn partners with Equifax for their PG Diploma in Data Science. The partnership aims at creating industry-ready professionals specialised in data science and analytic skills for the Banking Financial Services and Insurance (BFSI) sector. For more information on the course, visit: [www.manipalprolearn.com](http://www.manipalprolearn.com).

### Fellowships

Indian Institute of Management Kozhikode (IIMK) announced a programme - 'Stayin' Alive Entrepreneurship Fellowships, which is aimed at promoting entrepreneurship on campus by providing alumni-funded

monthly fellowship grants of up to Rs 50,000 per month, for a year to graduates who decide to launch their own start-up. For details, email [mgsree@iimk.ac.in](mailto:mgsree@iimk.ac.in), [www.iimk.ac.in](http://www.iimk.ac.in).

### Edtech conference

Senior leaders in higher education from colleges and universities will be attending the Higher Education & Technology Conference 2018 in Pune on November 2 to explore and discuss trends in higher education. For more details, log on to: <https://bit.ly/2A0gZvn>.

### Nanodegree programme

Udacity's Cybersecurity Nanodegree programme is currently open for registrations. Professionals interested in taking up challenging, in-demand roles such as security engineer and cloud security engineer can apply. For details, log on to <https://bit.ly/2EntjV>.

### Tata Trusts scholarships

Tata Trusts invite applications for scholarships in the field of MSc in Neuroscience, Masters in Speech Therapy and DEd and BEd. Application forms are available till November 5. For details, email at [igpedu@tatatrusters.org](mailto:igpedu@tatatrusters.org) or log on to <https://bit.ly/2C16rIZ>.

### Paper prototype workshop

A paper prototype workshop to build gadgets of the future has been organised on October 20, 2018 at the Visvesvaraya Industrial and Technological Museum (VITM), Bengaluru. The workshop is organised by India Foundation for the Arts in collaboration with VITM. For details, log on to: <https://bit.ly/2RTKohz>.

### KIRAN fellowships

Department of Science & Technology announces KIRAN Fellowships for Women in Science 2019. The last date for proposal submission is November 5, 2018. For details, log on to <https://bit.ly/2QRPIWg> or <https://bit.ly/2EjD3Fo>.

### IARI scholarships

Scholarships and fellowships are offered as financial assistance to postgraduate students at Indian Agricultural Research Institute. For more details, log on to <https://bit.ly/2pVYZRW>.

# Digital tools to learn maths

## IRRESPECTIVE OF TIME & SPACE

Proper use of technology helps students improve their understanding of mathematics and increases their proficiency in the subject, writes Sachin Gulati

Being a small-town boy, studying with limited resources, didn't stop Gurpreet from scoring national merit in IIT-JEE. Interestingly, he attributes his success to the advancing technology and evolving communication.

What helped Gurpreet? What is the connection between technology and study? How is technology making mathematics simpler for students? The answer is all around; one just needs to take a look. Technology has made learning mathematics simpler and interesting using interactive applications, real-world examples, games and puzzles, helping students overcome the long-prevailing phobia for number complexity and mathematical calculations. The study of mathematics inculcates creativity in a child, enabling him or her to think innovatively and find solutions to real-life equations.

Technology has evolved as a facilitator for those who want to overcome their weakness and strengthen their basics of mathematics, regardless of being in any corner of the world. The innovation in education has made learning easier across all the levels, from

kindergarten to postdoctoral research.

Technology not only enables teachers to explain mathematical concepts properly with live examples, but also assists them in organising the curricula, assessing and grading the students, and helps in defining the subjects comprehensively. In today's fast-paced life and bigger classrooms, teachers can't concentrate on every student individually, and that hampers a child's possible growth. Technology helps in easing the process of individual evaluation of a student and customising a learning programme to understand the best gist of mathematics.

### In the classroom

The role of a teacher is to pass on the information to the students and the responsibility of students is to analyse and understand the same to improve their critical thinking abilities. The newly emerged flipped classroom model enables students to learn independently with the help of technology. The task of a teacher here is to fill the critical gaps in learning maths and this model effectively serves the purpose, polished even better with the help



**CUSTOMISED** Today, learning with technology is not just about watching tutorial videos online, but has evolved into a response system.

of technology.

Modern age technology has gamified the learning process, especially in mathematics. Now the children in kindergarten and primary school have a number of interactive video games and digital puzzles to learn the basics of maths. At the later stages of learning like college education, an array of interactive online learning platforms provide interesting games, puzzles, and questions for better learning of complex Mathematical concepts. These days, the Artificial Intelligence (AI) enabled games are also turning responsive to make the number base stronger and help understand maths better.

### Real-life situations

Today, learning with technology is not just about watching tutorial videos online but has

evolved into a response system with different integrations to aid students in understanding maths.

Probability is an important part of mathematics that has a large share in human life as well. Technology is helping students in understanding probability calculations and gaining expertise in its implementation.

The real-life use of mathematics and probability in the stock market is just one big example of how your expertise in maths and love for numbers can change life. Another example is Google maps which are completely based on coordinate geometry.

With the change in time, people have moved from Door-darshan to Netflix, but the education structure in the country hasn't altered much. The re-

cent shift in global paradigms of education has steered countries to revamp their education structure and policies.

The fact that mathematics is omnipresent makes it an integral part of life. Technology has helped students in learning maths and thus changed the course of life greatly.

Gurpreet's mother remembers the day when the boy first sought the assistance of technology in understanding the concepts and how it helped him pursue a thriving career. Gurpreet changed his life with determination, perseverance and the use of technology. It's time you explore the options and make use of technology for a comprehensive learning experience.

(The author is founder, *TruMath, Haryana*)