Government Rajindra College Bathinda

DEPARTMENT OF MATHEMATICS PRESENTS

WHY DO WE NEED TO STUDY MATHEMATICS ?

- Mathematics teaches us to think logically; to identify and state the problem clearly; to plan how to solve the problem; and then to apply the appropriate methods to evaluate and solve the problem. We learn to evaluate and draw conclusions based on our knowledge

MATHEMATICS IN DAILY LIFE

- Mathematics makes our life orderly and prevents chaos. Certain qualities that are nurtured by mathematics are the power of reasoning, creativity, abstract or spatial thinking, critical thinking, problem-solving ability, and even effective communication skills.

CAREERS AFTER POST GRADUATION IN MATHEMATICS

- 1. **Lecturer in Mathematics**.
- If you have passion for this profession, then this is one of the rewarded and famous profile. Becoming a lecturer is not easy but if you are fully preparing for that then it cannot be tough for you.
- For lecturer, post BSc is required along with a minimum of 55% of marks. For a master's degree as well you required 55% marks is minimum for your specialization subject.
- Many colleges and universities can offer you a lecturer job just after your MSc.
- However, if you want to join the top university. Such as IIM or IIT then you should need to clear the UGC NET exam.
- If you want to see yourself as a "professor" in these top universities. Then you should apply for the MPhil/Ph.D.

CAREERS AFTER POST GRADUATION IN MATHEMATICS

- **2. Scientific Officer**.
- If you are very good at mathematics and calculation. Then MSc maths can give you the opportunity to work with the top government sector.

- In another word, you can apply for a scientific officer job in the industry such as ISRO (the Indian Space research Organization). DRDO (Defense Research and Development Organization). NAL (National Aeronautics Limited)

CAREERS AFTER POST GRADUATION IN MATHEMATICS

- 3. Computer & IT.
- MSc math also relates to computer science. A career after MSc maths gives you a vast pathway for the computing field.

- ICT (information and communication technology) is playing a big role in this platform. ICT always offer a new role for math degree students. Such as the development of ICT, Regular Maintenance, Manufacturing and design part, general part, and so on.
- The top companies such as HCL, TCS, HDFC, Crayon Data, Mu Sigma, fractal Analytics are always looking for the data scientists.

CAREERS AFTER POST GRADUATION IN MATHEMATICS

- 4. Statistical Research.
- A career in statistical research is very interesting. It presents the company's statistical business at a modest and technical level.

- Under this profession, you will get the chance of analyzing, researching, using mathematical tools, algorithms, and theories, and become a professional.

CAREERS AFTER POST GRADUATION IN MATHEMATICS

- 5. Cryptographer

- Primary duties: Cryptographers protect private information and encrypt confidential data, allowing them to protect a company's private records. They encrypt this data by using complex algorithms and data encryption software. Cryptographers may work in many sectors since they are experts at protecting sensitive financial information. Cryptographers may also use their analytical skills to resolve data breaches and check for security vulnerabilities.

CAREERS AFTER POST GRADUATION IN MATHEMATICS

- 6. Geographic Information System (GIS) analyst

- Primary duties: A Geographic Information System (GIS) analyst is an individual who combines data analytics, cartography and programming to understand spatial data. They use this geographic data within mapping software to design, create and maintain digital maps.

CAREERS AFTER POST GRADUATION IN MATHEMATICS

- 7. Underwriter

- Primary duties: An underwriter collects and analyzes statistical data to assess an individual's risk when deciding on a policy to provide them. Underwriters primarily work in the business and financial sector to review policy applications, prepare risk assessment reports and manage insurance applications throughout the entire process. Underwriters compare policies and determine premiums based on the underwriting standards of their employers.

CAREERS AFTER POST GRADUATION IN MATHEMATICS

- 8. Aerospace engineer

- Primary duties: Aerospace engineers design, create and operate aircraft. From drones to rockets, these professionals use math and physics to create the latest aerodynamic vehicles. They may develop and test flying earth vehicles, like helicopters and fighter jets, or they can design and improve spacecraft, such as planetary probes and satellites.

Government Job Profile

- *After completing master's degree not only private but government sector also respect your knowledge and degree*.
- Demographer.
- Statistician.
- Quantitative Developer.
- Quantitative Risk Analyst.
- Director of Statistical Programming.
- Equity Quantitative analyst.
- Interest Rate Trading Strategist.
- Treasury Management Specialist.
- Researcher and accountant.

Highly Paid Job After MSc Maths in India

- The scientific area of the mathematics is very powerful.
- It covers various areas such as biology, engineering, education, sports, psychology, and more. Therefore mathematics is one of the high demanding professions in India.
- And it does have lots of high paid jobs after MSc math's in India and abroad too. A few high-paid job profiles and area names are listed as follows.

- Economist.
- Stockbroker.
- Statistician.
- Financial Planner.
- Mathematician.
- Tax Collector.
- Accountant.
- Meteorologist.
- Aerospace Engineer.
- Data Scientist.

THANK YOU