



DAV UNIVERSITY

JALANDHAR

DEPARTMENT OF MATHEMATICS

SCIENCE ACADEMIES' LECTURE WORKSHOP ON ALGEBRA AND NUMBER THEORY

September 8-9, 2017

FUNDED BY



INDIAN ACADEMY OF SCIENCES



INDIAN NATIONAL SCIENCE ACADEMY



THE NATIONAL ACADEMY OF SCIENCES

ABOUT THE ACADEMIES



INDIAN ACADEMY OF SCIENCES

The Indian Academy of Sciences (IASc), Bangalore was founded in 1934 by C. V. Raman. Its objectives include promoting the progress of science in pure and applied branches. Major activities include organizing meetings for discussions on important topics, publication of scientific journals, recognizing scientific talent, improvement of science education and taking up other issues of concern to the scientific community.



INDIAN NATIONAL SCIENCE ACADEMY

The Indian National Science Academy (INSA), New Delhi founded in 1935 is a premier science academy in the country, INSA plays crucial role in promoting, recognizing and rewarding excellence.



THE NATIONAL ACADEMY OF SCIENCES

The National Academy of Sciences (NASI), Allahabad was founded in 1930. The main objective of the academy is to provide a national forum for the publication of research work carried out by Indian scientists.

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ABOUT THE UNIVERSITY



DAV University, Jalandhar is promoted by DAV College Managing Committee which is India's largest non-government educational organization managing more than 800 institutions in the country.

It has been providing students with an excellent education in modern academic environment. The University traces its roots to the legacy that has been reforming and redefining India's educational scenario for 130 years. The University has been established by a Legislative Act of the Punjab Government and empowered to confer degrees under Section 22 of the UGC Act 1956.

It is a multi-disciplinary institution, home to faculties of teaching excellence in subjects from engineering to languages to natural sciences including physical and life sciences. DAV University is spread across an area of about 72 acres and it provides an ideal ambience for pursuing professional courses and ensuring all-round development of students. The campus is well equipped with modern infrastructure, round-the-clock power backup, canteens and huge parking area.

ABOUT THE DEPARTMENT

In keeping up with the heritage of imparting quality education, teaching and research are the prime areas of concern for the Department of Mathematics. The Department focuses on research and development; science and technology; and meritorious careers in academics and proficient industries. The Department has highly qualified, young and dynamic faculty members. Students gain deep insight into various new areas of research. They get the opportunities to attend seminars and invited/guest lectures delivered by eminent mathematicians.

To meet the latest demands of the industry, the Department keeps on periodically updating and revising its teaching pedagogies, research schemes and introduces new courses. The syllabi of both the undergraduate and postgraduate courses are designed to equip students to qualify exams such as GATE, UGC NET etc. The Department has a well-equipped computer Lab with latest softwares like MATLAB, MATHEMATICA etc.



Srinivasa Ramanujan

ABOUT THE WORKSHOP

The objective of the workshop is to introduce some of the basic facts of algebra and number theory that UG and PG Mathematics students should know. Algebra and number theory are two main branches of modern mathematics which are playing a significant role in the other areas of mathematics. The interaction between algebra and number theory is found to be beneficial in computing and communications as evident from the applications of these subjects in cryptography and coding theory. The main topics to be covered in this workshop are as follows:

- Group Actions and their Applications
- Matrices and Quadratic Forms
- Prime Numbers, Congruences, Reciprocity
- Diophantine Equation and Elliptic Curves

TERMS OF PARTICIPATION

- **There is NO registration fee for attending the workshop.**
- Limited number of participants will be entertained.
- Tea and lunch will be served to the participants.
- No accommodation will be provided.
- Participation restricted to UG/PG students, research scholars and faculty members.

Please visit www.davuniversity.org for application form and details.