

REPORT On One Day Workshop: Organized by
Department of Mathematics.

Report on One Day Workshop Titled “ Mathematics in Computer science “

Dated: 16th November, 2023.

The Department of Mathematics, Centre of Excellence, Government College Sanjauli, Shimla-6, have organized One Day Workshop on "Mathematics in Computer Science" under DBT Star College Scheme on 16th November, 2023. The Resource person was an eminent mathematician Dr. Pawan Kumar Sharma, Associate professor in the Department of Mathematical Sciences & Scientific Computing at NIT Hamirpur, Himanchal Pradesh.

Dr. Girish Kapoor, HOD Department of Mathematics and Dr. Anjana Sharma, Assistant professor in Mathematics welcomed the chief guest Prof. Bharti Bhagra, Principal of this prestigious Excellence college, other teachers and all participants. Dr. Anjana Sharma formally welcomed the speaker and introduced him to the audience.

The morning session start with the power point presentation of Dr Pawan Kumar Sharma. In this lecture speaker explain about the basic concept of Mathematics like, calculus, derivatives, delta- epsilon definition of limits, curvature, wave propagation formulas, one dimensional heat flow equations, differential equations roots and it's essence in Computer Science. After Lunch break at 1:30 pm the second session start at 2 pm.

In this session speaker first give a power point presentation on “ Matrices as a tool “ in Computer Science. The main focus of this lecture was on Mathematics in computer graphics. All the mathematical transformation which are used in Matrices are explained by professor Sharma and then a demonstration was given where these transformation of matrices are used in Computer Graphics to scale up or scale down a character, to rotate a cartoon character, to create images by using reflections in Matrices and translations in Matrices. After the demonstration speaker concluded that without matrix work on computer is impossible almost. Speaker highlighted so many applications of Mathematics in Daily Life, in animation world. At last the speaker gave the counselling regarding IIT JAM exam (joint admission test for masters) and encourage students to do hard work for their future. At the end HOD mathematics Dr Girish Kapoor thanks the speaker for their support encouragement and sparing their valuable time for this institution.

This one Day Workshop was concluded with a note of thanks and National anthem.

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