

REPORT ON ONLINE SPECIAL LECTURE SERIES IN MATHEMATICS, 2020

(OSLSM 2020)

Phase II- Lecture Codes: 02.A1 & 02.A2

Dates: 18.08.2020 [for 02.A1] & 19.08.2020 [for 02.A2].

Time: 02:00pm to 03:30 pm [IST].

Topic 1: Multivariate differentiation (02.A1)

Topic 2: From numerical analysis to Shrek (02.A2)

Target Audience: The lectures are meant primarily for the UG/PG students of Department of Mathematics of Netaji Subhas Open University [NSOU]. However, students of other universities and institutes, research scholars, faculties of different colleges/universities or any interested person were welcome to attend the lectures.

Technical Platform: The webinar was conducted using Zoom app through the LMS platform of ICT, NSOU. Technical Support was extended by M/s School Guru.

Speaker: Dr. Arnab Chakraborty, Associate Professor, Applied Statistics Unit, Indian Statistical Institute, Kolkata.

About the speaker: After completing his B. Stat & M. Stat. from ISI, Kolkata, Dr. Chakraborty did his Ph. D. from Stanford University. He has published several papers in reputed top class international journals. He is very enthusiastic in teaching and authored several books meant for undergraduate students. He has authored a series of books named “বাংলায়-বোঝানো-ইংরাজি-বই” where key topics, taught mostly in undergraduate mathematics, have been beautifully explained in bilingual approach (English and Bengali as vernacular). These books helps the students to learn the subjects themselves while staying even in the farthest hamlets with least access to other learning resources.

Abstract of the first lecture: In this talk we shall explore the concept of multivariate differentiation with the help of 3D graphics. The aim is to develop a feel for the definitions.

Abstract of the second lecture: This talk aims to provide a motivation for iterative linear equation solvers like Gauss Seidel. We shall walk through an example where we want to determine the shape of a soap film. The talk also introduces the concept of finite elements.

A brief proceeding/ overview: The arranged webinars were two days' online class lectures. In these two lectures of Dr. Arnab Chakraborty were divided into two distinct topics taught in undergraduate and/ or post graduate mathematics with a huge scope of application.

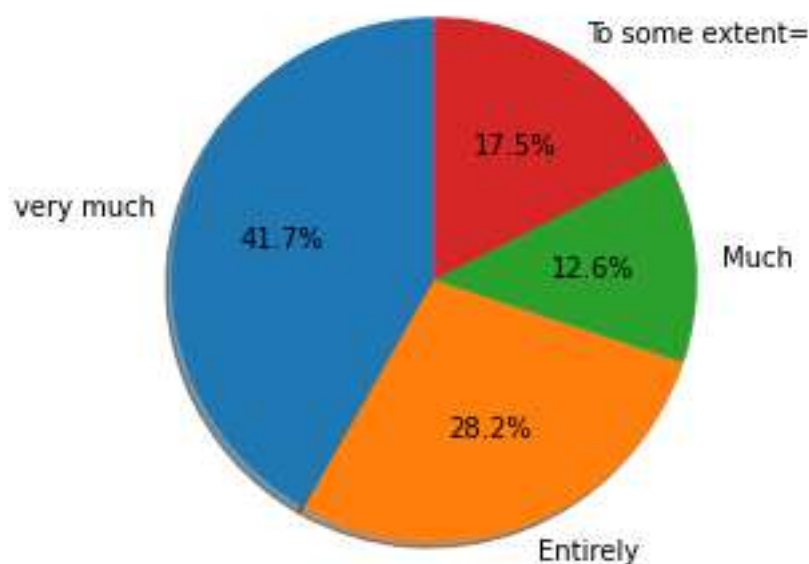
The webinars were commenced by the organizing Secretary Dr. Ushnish Sarkar, Assistant Professor of

Mathematics, NSOU. After a brief introduction of the speaker Dr. Chakraborty by Dr. Sarkar, the welcome address was delivered by Chairperson Prof. Kajal De, Head of the Department of Mathematics & Director, School of Sciences, NSOU. Later Dr. Chakraborty took over the session. On day 1, the lecture was about understanding several concepts related to multivariate differentiation. In the 2nd day, the lecture revolved around the iterative linear equation solvers like Gauss Seidel and the concept of finite elements and their usefulness in computational mathematics. Explaining related applicability to 3D animation movies like Shrek was a fantastic experience. Both the sessions saw active interactions between the speaker and the participants in the Q & A slots after the lectures were delivered.

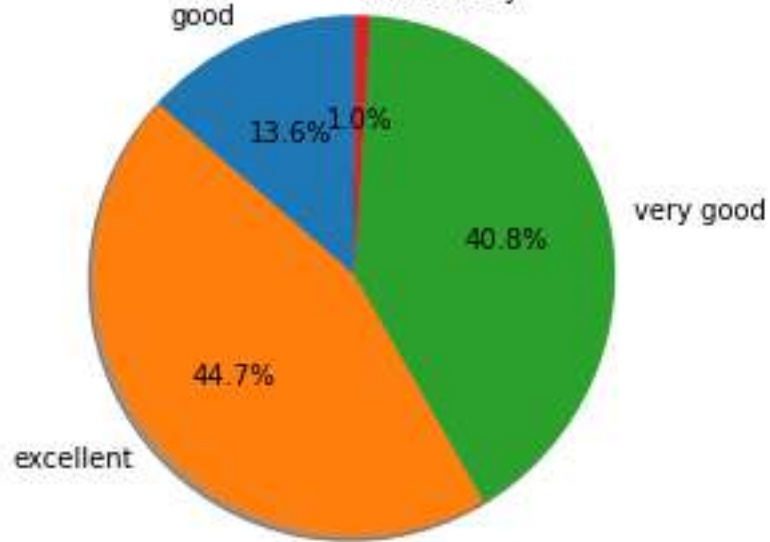
The programme ended with the concluding remarks of Prof. Kajal De and Dr. Ushnish Sarkar, followed by the vote of thanks by Mr. Chandan Kumar Mondal, Assistant Professor of Mathematics, who is also Organizing Secretary of this series. A special thanks was given to the Honourable Vice Chancellor, Prof. Subha Shankar Sarkar of Netaji Subhas Open University (NSOU) for his exemplary and inspirational leadership and support towards materializing this event into a reality.

Feedbacks at a glance

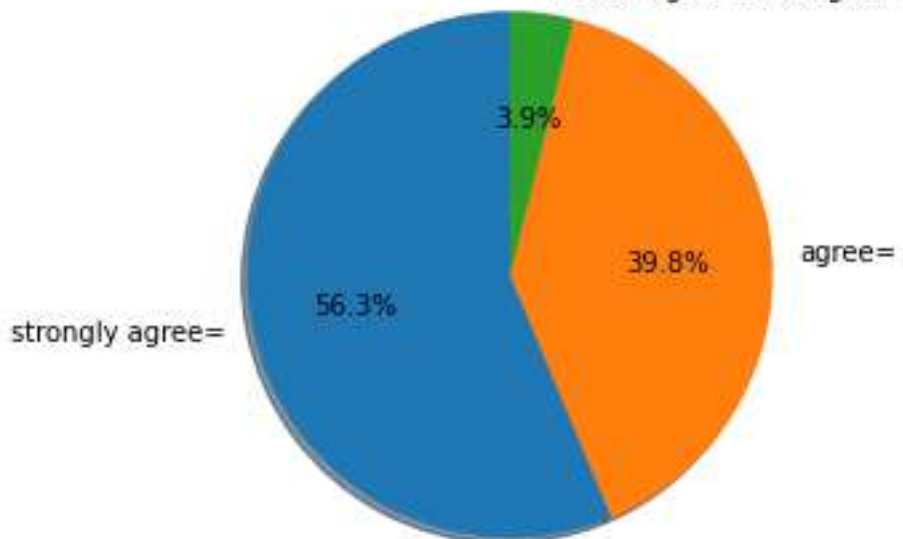
Feedback on the basis of familiarities with the topic



Feedback on the basis of exposure with the topic



Feedback on the basis of teaching of the topic



Remarks: The lectures were a huge success and received a positive response from the participants.