

ST. XAVIER'S COLLEGE, MAPUSA GOA
College with Potential for Excellence
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Awarded DBT STAR College Scheme

	1
Nature of Event	
(Workshop, Guest Lecture,	Guest Lecture
Add-on Course, Seminar,	
etc.)	
	Mathematics
Name of Department	
Faculty In-Charge	Mr. Gajanan R Parab
Stratum of Event	
(College, State, Regional,	College
National)	
,	
Title of Event	Estimations on Primes and its Applications
Title of Event	01 March 2023
Date of Event	Of Watch 2023
Date of Event	
Venue	Lecture Hall 212
	Dr. Saranya G Nair
Resource Person details	Assistant Professor in Mathematics
	Department of Mathematics
	Birla Institute of Technology and Science, Pilani
	K.K.Birla Campus, Goa
	K.K.Biria Campus, Goa
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Objective/ Scope of Event	To introduce the prime numbers (which are building blocks of
	number theory), its role in numbers theory and some of its
	historic occurrences.
	The resource person Dr. Saranya Nair commenced with the
Particulars of Event	basics of number theory starting with the Fundamental theorem
	of Arithmetic, followed by the Theorem of Euclid from which
	she deduced the Euclid Mullin sequence. The Sieve of
	Eratosthenes was then explained which interested many of the
	participants. Several interesting properties of numbers in general
	and prime numbers in particular were displayed to the students
	and explained with extremely lucid techniques accessible to
	First Year students. She demonstrated how the prime counting
	function to count the number of primes less than or equal to a
	given number uses Mathematical analysis in explaining the
	Euler analysis in number theory which was postulated by
	Dirichlet some 100 years ago. She further explained how
	Chebyshev's result enabled the conclusion of Bertrand's
	postulate.
	P 1
	As the lecture concluded, students were made aware that
	important branches in Mathematics like Complex Analysis had
	their origin in Number theory – because early attempts to prove
	prime number theory stimulated the development of the theory

	of functions of complex variables, especially the theory of entire functions.
Outcome of Event	Participants were able to admire the beautiful properties and span of prime numbers and they also got to know the historic development of primes.
Feedback	Participants really enjoyed the lecture.
Total No. of Participants	65

Photographs





