

June	28/06/2024	29/06/2024	1	Introduction to Combinatorics		Smart Board PDF	A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
July	01/07/2024	06/07/2024	4	generalized Pigeon-hole principle		Smart Board PDF	A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
	08/07/2024	13/07/2024	3	methods of mathematical induction - weak induction			A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
	15/07/2024	20/07/2024	4	methods of mathematical induction - strong induction, methods of mathematical induction - strong induction.		Data projector	A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
	22/07/2024	27/07/2024	4	Strings over finite alphabet, Choice problems. Permutations			A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona

July August	29/07/2024	03/08/2024	4	Choice problems			A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
August	05/08/2024	10/08/2024	3	Binomial theorem		Smart Board	A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
	12/08/2024	17/08/2024	4	Multinomial theorem			A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
	19/08/2024	24/08/2024	4	Compositions,		Smart Board PDF	A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
	26/08/2024	31/08/2024	3	Set partitions			A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona

September	02/09/2024	07/09/2024	2	Integer partitions		Smart Board	A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
	09/09/2024	14/09/2024	2	Cycles in permutations			A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
	16/09/2024	21/09/2024	4	Permutations with restricted cycle structure		Smart Board	A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
	23/09/2024	28/09/2024	4	Enumerating the elements of intersecting sets		Smart Board	A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
September October	30/09/2024	05/10/2024	4	applications of the sieve formula.			A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
October	07/10/2024	12/10/2024	4	Ordinary generating functions - Recurrence relations and generating			A Walk Through Combinatorics - An Introduction to

			functions Products of generating functions,			Enumeration and Graph Theory by Miklos Bona
14/10/2024	19/10/2024	4	Compositions of generating functions. Exponential generating functions – Recurrence relations and exponential generating functions,			A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona
21/10/2024	22/10/2024	2	Products of exponential generating functions, Compositions of exponential generating functions.			A Walk Through Combinatorics - An Introduction to Enumeration and Graph Theory by Miklos Bona

*** Assessment Rubrics**

Component	Max Marks
ISA 1	10
ISA 2	10
Practical	Nil
Project	Nil
Semester End Exam	80