

Curriculum Plan: B. Sc. (Hons) Mathematics (Semester VI)- ADVANCED GROUP THEORY. (2025-26)-EVEN SEM

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		<p>Classes Assigned</p>	<p>Internal Assessment-30</p>
	<p>References</p>	<p>1. JOSEPH A. GALLIAN (CONTEMPORARY ABSTRACT ALGEBRA) 4TH ED. 2. DUMMIT AND FOOTE (ABSTRACT ALGEBRA) 8TH ED.</p>	
	<p>Week</p>	<p>Topics</p>	
	<p>1st week</p>	<p>GROUP ACTIONS AND PERMUTATION REPRESENTATION. Continued.</p>	
	<p>2nd week</p>	<p>GROUP ACTIONS AND PERMUTATION REPRESENTATION.</p>	
	<p>3rd week</p>	<p>STABILIZERS AND KERNELS OF GROUP ACTIONS. Continued.</p>	
	<p>4th week</p>	<p>STABILIZERS AND KERNELS OF GROUP ACTIONS.</p>	
	<p>5th week</p>	<p>GROUP ACTING ON THEMSELVES BY LEFT MULTIPLICATIONS AND CONSEQUENCES. Continued.</p>	
	<p>6th week</p>	<p>GROUP ACTING ON THEMSELVES BY LEFT MULTIPLICATIONS AND CONSEQUENCES.</p>	
	<p>7th week</p>	<p>CONJUGACY IN S_n.</p>	
	<p>8th week</p>	<p>SYLOW THEOREMS</p>	
	<p>9th week</p>	<p>FINITE SIMPLE GROUPS</p>	
	<p>10th week.</p>	<p>NONSIMPLICITY TESTS</p>	
	<p>11th week</p>	<p>SOLVABLE GROUPS</p>	
	<p>12th week</p>	<p>COMPOSITION SERIES</p>	
	<p>13th week</p>	<p>NILPOTENT GROUPS</p>	
	<p>14th week</p>	<p>JORDAN-HOLDER THEOREM</p>	
	<p>15th week</p>	<p>REVISION.</p>	