



# ST. WILFRED'S COLLEGE OF ARTS, COMMERCE & SCIENCE

(Affiliated to Mumbai University)

Opp. Ayush Resort, Near Shedung Toll Plaza, Old Mumbai-Pune Highway, Panvel, Navi Mumbai-410206  
Ph. No. +91-8655678500, 9699625148 • College Code 1033 • E-mail: stwilfred.acs@gmail.com • website : www.stwilfreds.org

## Lecture Plan (2022-23)

B.SC (SEM-I)

PAPER-I(CALCULUS)

S.No	Schedule Date	Day	Particulars of Topic covered	Teaching Methodology	Date of execution	Remark/ Evaluation Technique
1.	11-07-2022	Monday	Orientation		11-07-22	
2.	12-07-2022	Tuesday	Real number system $\mathbb{R}$	Black board	12-07-22	
3.	13-07-2022	Wednesday	Introduction of real number system $\mathbb{R}$	ppt	13-07-22	
4.	18-07-2022	Monday	Order properties of $\mathbb{R}$	Video lecture	18-07-22	
5.	19-07-2022	Tuesday	Order properties of $\mathbb{R}$	Black board	19-07-22	Oral Test
6.	20-07-2022	Wednesday	Supremum and	Interactive method	20-07-22	
7.	25-07-2022	Monday	Absolute value of real number system and its properties	ppt	25-07-22	Oral test
8.	26-07-2022	Tuesday	Absolute value of real number system and its properties	Black board	26-07-22	
9.	27-07-2022	Wednesday	Absolute value of real number system and its properties	ppt	27-07-22	
10	1-08-2022	Monday	Absolute value of real number system and its properties	Black board	1-08-22	Class Test
11	2-08-2022	Tuesday	AM-GM inequality	Video lecture	2-08-22	

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12	3-08-2022	Wednesday	AM-GM inequality	Black board	Discussion topic cover	
13	8-08-2022	Monday	Cauchy-Schwarz inequality	Interactive method	8-08-22	
14	9-08-2022	Tuesday	Intervals and neighbourhoods	ppt	9-08-22	Open book test
15	10-08-2022	Wednesday	Hausdorff property	Lecture method	10-08-22	
16	17-08-2022	Wednesday	Bounded sets	Group discussion	17-08-22	
17	22-08-2022	Monday	statements of I.u.b	ppt	22-08-22	Unit test
18	23-08-2022	Tuesday	Axiom and its consequences	Participative method	23-08-22	
19	24-08-2022	Wednesday	Supremum and infimum, Maximum and minimum	ppt	24-08-22	Oral test
20	29-08-2022	Monday	Supremum and infimum.	Video lecture	29-08-22	
21	30-08-2022	Tuesday	Archimedean property and its applications	Black board	30-08-22	
22	5-09-2022	Monday	Density of rationals	Group discussion	5-09-22	
23	7-09-2022	Wednesday	Definition of a sequence and examples	Black board	topic cover in front class	Class test
24	12-09-2022	Monday	Convergence of sequences	ppt	12-09-22	
25	13-09-2022	Tuesday	every convergent sequences is bounded	Group discussion	13-09-22	

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26	14-09-2022	Wednesday	Limit of a convergent sequence	Black board	14-09-22	Oral Test
27	19-09-2022	Monday	uniqueness of limit, Divergent sequences.	ppt	19-09-22	UNIT-TEST
28	20-09-2022	Tuesday	uniqueness of limit, Divergent sequences.	Black board	20-09-22	
29	21-09-2022	Wednesday	Convergence of standard sequences	ppt	21-09-22	Class Test
30	26-09-2022	Monday	Algebra of convergent sequences, sandwich theorem	Participative method	26-09-22	
31	27-09-2022	Tuesday	monotone sequences, monotone convergence theorem	Black board	27-09-22	
32	28-09-2022	Wednesday	Definition of subsequence, subsequence of a convergent sequence is convergent	Group discussion	28-09-22	
33	3-10-2022	Monday	subsequence of a convergent sequence is convergent and converges to the same limit	Black board	3-10-22	

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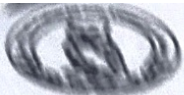
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			converges to the same limit			
34	4-10-2022	Tuesday	definition of a Cauchy sequences	Video lecture	4-10-22	
35	10-10-2022	Monday	every convergent sequences s a Cauchy sequence and converse	ppt	10-10-22	Open book test
36	11-10-2022	Tuesday	Graphs of same standard functions	Black board	11-10-22	
37	12-10-2022	Wednesday	Definition of limit	Participative method	12-10-22	
38	17-10-2022	Monday	Evaluation of limit of simple function ,Uniqueness of limit if exists	Black board	17-10-22	
39	18-10-2022	Tuesday	Algebra of limts, limits of composite function	ppt	18-10-22	
40	19-10-2022	Wednesday	sandwich theorem, left-hand-limit	Participative method	19-10-22	
41	31-10-2022	Monday	righthand-limit, non-existence of limits	Black board	31-10-22	Student Presentation
42	1-11-2022	Tuesday	Continuous functions: Continuity of a real valued	Participative method	1-11-22	

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			function on a set in terms of limits			
43	2-11-2022	Wednesday	discontinuous functions, examples of removable and essential discontinuity	Black board	2-11-22	
44	7-11-2022	Monday	Remedial class	ppt	7-11-22	
45	9-11-2022	Wednesday	Remedial class	Black board	9-11-22	
46	14-11-2022	Monday	Remedial class	Black board	14-11-22	
47	15-11-2022	Tuesday	Remedial class	Participative method	15-11-22	Class Test
48	16-11-2022	Wednesday	Remedial class	Black board	16-11-22	

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