Department:MATHEMATICS   Batch:MSC MATHS 2023   Semester:S4

Subject Planner Report (Proposed) Of CC19PMTH2C07 Real Analysis II

Sl.no	Topic Name	Description	Date	Hour	Module	Mode of Instruction	Teaching Pedagogy
1	Theorem 6 and 7	Theorem 6 and 7	11-03-2024	1	3	Lecture	Participative learning
2	Riesz - Fisher theorem	Riesz -Fisher theorem	08-03-2024	3	3	Lecture	Participative learning
3	Minkowski inequality,	Minkowski inequality	07-03-2024	4	3	Lecture	Participative learning
4	Inequalities of Young's,Holder	Inequalities of Young's,Holder	06-03-2024	1	3	Lecture	Participative learning
5	Normed linear spaces	Normed linear spaces	05-03-2024	5	3	Lecture	Participative learning
6	Jensens inequality	Jensens inequality	04-03-2024	1	3	Lecture	Participative learning
7	Convex functions	Convex functions	01-03-2024	3	3	Lecture	Participative learning
8	Corollary 12 theorem 14	Corollary 12 theorem 14	29-02-2024	4	3	Lecture	Participative learning
9	Absolute continuous theorem	Absolute continuous theorem	28-02-2024	1	3	Lecture	Participative learning
10	Jordan's theorem	Jordan's theorem	27-02-2024	5	3	Lecture	Participative learning
11	Functions of bounded variation	Functions of bounded variation	26-02-2024	1	3	Lecture	Participative learning
12	Corollary 5	Corollary 5	23-02-2024	3	3	Lecture	Participative learning
13	Corollary 4	Corollary 4	22-02-2024	4	3	Lecture	Participative learning
14	Lemma 3 and Lebesgue theorem	Lemma 3 and Lebesgue theorem	21-02-2024	1	3	Lecture	Participative learning
15	Vitali covering lemma	Vitali covering lemma	20-02-2024	5	3	Lecture	Participative learning
16	Continuity of monotone functions	Continuity of monotone functions	19-02-2024	1	3	Lecture	Participative learning

17	Characterization of Riemann Lebesgue integrability	Characterization of Riemann Lebesgue integral	17-02-2024	1	3	Lecture	Participative learning
18	Convergence in measure	Convergence in measure	16-02-2024	3	2	Lecture	Participative learning
19	Uniform integrability	Uniform integrability	15-02-2024	4	2	Lecture	Participative learning
20	Vitalis convergence theorem	Vitalis convergence theorem	14-02-2024	1	2	Lecture	Participative learning
21	Dominated convergence theorem	Dominated convergence theorem	13-02-2024	5	2	Lecture	Participative learning
22	General Lebesgue integral	General Lebesgue integral	12-02-2024	1	2	Lecture	Participative learning
23	Beppo levis lemma	Beppo levis lemma	09-02-2024	3	2	Lecture	Participative learning
24	Monotone convergence theorem	Monotone convergence theorem	08-02-2024	4	2	Lecture	Participative learning
25	Fatous lemma	Fatous lemma	07-02-2024	1	2	Lecture	Participative learning
26	Theorem 10	Theorem 10	06-02-2024	5	2	Lecture	Participative learning
27	Chebychev's inequality	Chebychev's inequality	05-02-2024	1	2	Lecture	Participative learning
28	Bounded convergence theorem	Bounded convergence theorem	02-02-2024	3	2	Lecture	Participative learning
29	Proposition 8	Proposition 8	01-02-2024	4	2	Lecture	Participative learning
30	Corollary 7	Corollary 7	31-01-2024	1	2	Lecture	Participative learning
31	Corollary 6	Corollary 6	30-01-2024	5	2	Lecture	Participative learning
32	Linearity and monotonicity of bounded function	Linearity and monotonicity of bounded function	29-01-2024	1	2	Lecture	Participative learning
33	Theorem 4	Theorem 4	26-01-2024	3	2	Lecture	Participative learning
34	Theorem 3	Theorem 3	25-01-2024	4	2	Lecture	Participative learning

35	Linearity and monotonicity of Lebesgue integral	Linearity and monotonicity of Lebesgue integral	24-01-2024	1	2	Lecture	Participative learning
36	Definition and lemma 1	Definition and lemma 1	23-01-2024	5	2	Lecture	Participative learning
37	Dirchlet function	Dirchlet function	22-01-2024	1	2	Lecture	Participative learning
38	Riemann integrals	Riemann integrals	19-01-2024	3	2	Lecture	Participative learning
39	Proposition 11	Proposition 11	18-01-2024	4	2	Lecture	Participative learning
40	Lusin's theorem	Lusin's theorem	17-01-2024	1	2	Lecture	Participative learning
41	Egoroff's theorem	Egoroff's theorem	16-01-2024	5	2	Lecture	Participative learning
42	Littlewoods principle	Littlewoods principle	15-01-2024	1	2	Lecture	Participative learning
43	Simple approximation lemma and theorem	Simple approximation theorem	12-01-2024	3	2	Lecture	Participative learning
44	Convergence	Convergence	11-01-2024	4	2	Lecture	Participative learning
45	Theorem 6	Theorem 6	10-01-2024	1	2	Lecture	Participative learning
46	Proposition 4,5	Proposition 4,5	09-01-2024	5	2	Lecture	Participative learning
47	Proposition 2,3	Proposition 2,3	08-01-2024	1	2	Lecture	Participative learning
48	Proposition 1	Proposition 1	05-01-2024	3	2	Lecture	Participative learning
49	Lebesgue measurable functions	Lebesgue measurable functions	04-01-2024	4	2	Lecture	Participative learning
50	Cantor set and proposition 19	Cantor set and proposition 19	03-01-2024	1	1	Lecture	Participative learning
51	Vitalis theorem	Vitalis theorem	21-12-2023	4	1	Lecture	Participative learning
52	Non measurable set	Non measurable set	20-12-2023	1	1	Lecture	Participative learning
53	Borel cantelli lemma	Borel cantelli lemma	19-12-2023	5	1	Lecture	Participative learning
54	Continuity of measure	Continuity of measure	18-12-2023	1	1	Lecture	Participative learning

55	Proposition 13 and theorem 14	Proposition 13 and theorem 14	16-12-2023	1	1	Lecture	Participative learning
56	Theorem 12	Theorem 12	15-12-2023	3	1	Lecture	Participative learning
57	Theorem 11	Theorem 11	14-12-2023	4	1	Lecture	Participative learning
58	Borel set , Theorem 9	Borel set, Theorem 9	13-12-2023	1	1	Lecture	Participative learning
59	Proposition 8	Proposition 8	12-12-2023	5	1	Lecture	Participative learning
60	Proposition 7	Proposition 7	11-12-2023	1	1	Lecture	Participative learning
61	Proposition 6	Proposition 6	08-12-2023	3	1	Lecture	Participative learning
62	Problems	Problems	07-12-2023	4	1	Lecture	Participative learning
63	Proposition 5	Proposition 5	06-12-2023	1	1	Lecture	Participative learning
64	Proposition 4	Proposition 4	05-12-2023	5	1	Lecture	Participative learning
65	Properties of outer measure	Properties of outer measure	04-12-2023	1	1	Lecture	Participative learning
66	Proposition 2,3	Proposition 2,3	01-12-2023	3	1	Lecture	Participative learning
67	Proposition 1	Proposition 1	30-11-2023	4	1	Lecture	Participative learning
68	Lebesgue measure and outer measure	Lebesgue measure and outer measure	29-11-2023	1	1	Lecture	Participative learning
69	Sigma algebra	Sigma algebra	28-11-2023	5	1	Lecture	Participative learning
70	Measure introduction	Measure introduction	27-11-2023	1	1	Lecture	Participative learning

Signature of Faculty   Signature of HOD   Signature of Principal

Department:MATHEMATICS   Batch:MSC MATHS 2023   Semester:S4

Handling faculty:- ANAND M S

Subject Planner Report (Actual) Of CC19PMTH2C07 Real Analysis II

Sl.No	Topic Name	Date	Hour	Module	Teaching Pedagogy	Portion Status	Subject Strength	Students Attended
1	Inequalities of Young's,Holder	27-02-24	5	3	Participative learning	Fully covered	10	9
2	Minkowski inequality,	27-02-24	5	3	Participative learning	Fully covered	10	9
3	Riesz - Fisher theorem	27-02-24	5	3	Participative learning	Fully covered	10	9
4	Theorem 6 and 7	27-02-24	5	3	Participative learning	Fully covered	10	9
5	Jensens inequality	26-02-24	1	3	Participative learning	Fully covered	10	5
6	Normed linear spaces	26-02-24	1	3	Participative learning	Fully covered	10	5
7	Corollary 12 theorem 14	22-02-24	4	3	Participative learning	Fully covered	10	8
8	Convex functions	22-02-24	4	3	Participative learning	Fully covered	10	8
9	Functions of bounded variation	21-02-24	1	3	Participative learning	Fully covered	10	8
10	Jordan's theorem	21-02-24	1	3	Participative learning	Fully covered	10	8
11	Absolute continuous theorem	21-02-24	1	3	Participative learning	Fully covered	10	8
12	Corollary 5	20-02-24	5	3	Participative learning	Fully covered	10	7
13	Functions of bounded variation	20-02-24	5	3	Participative learning	Partially covered	10	7
14	Vitali covering lemma	19-02-24	1	3	Participative learning	Fully covered	10	8
15	Lemma 3 and Lebesgue theorem	19-02-24	1	3	Participative learning	Fully covered	10	8
16	Corollary 4	19-02-24	1	3	Participative learning	Fully covered	10	8
17	Characterization of Riemann	16-02-24	3	3	Participative	Fully	10	7

					learning	covered		
18	Continuity of monotone functions	16-02-24	3	3	Participative learning	Fully covered	10	7
19	Uniform integrability	15-02-24	4	2	Participative learning	Fully covered	10	5
20	Convergence in measure	15-02-24	4	2	Participative learning	Fully covered	10	5
21	General Lebesgue integral	12-02-24	1	2	Participative learning	Fully covered	10	7
22	Dominated convergence theorem	12-02-24	1	2	Participative learning	Fully covered	10	7
23	Vitalis convergence theorem	12-02-24	1	2	Participative learning	Fully covered	10	7
24	Monotone convergence theorem	07-02-24	1	2	Participative learning	Fully covered	10	9
25	Beppo levis lemma	07-02-24	1	2	Participative learning	Fully covered	10	9
26	Fatous lemma	02-02-24	3	2	Participative learning	Fully covered	10	9
27	Theorem 10	01-02-24	4	2	Participative learning	Fully covered	10	9
28	Chebychev's inequality	31-01-24	1	2	Participative learning	Fully covered	10	7
29	Theorem 10	31-01-24	1	2	Participative learning	Partially covered	10	7
30	Proposition 8	30-01-24	5	2	Participative learning	Fully covered	10	9
31	Bounded convergence theorem	30-01-24	5	2	Participative learning	Fully covered	10	9
32	Corollary 6	29-01-24	1	2	Participative learning	Fully covered	10	8
33	Corollary 7	29-01-24	1	2	Participative learning	Fully covered	10	8
34	Linearity and monotonicity of bounded function	24-01-24	1	2	Participative learning	Fully covered	10	7
35	Theorem 3	23-01-24	5	2	Participative learning	Fully covered	10	8

36	Theorem 4	23-01-24	5	2	Participative learning	Fully covered	10	8
37	Definition and lemma 1	22-01-24	1	2	Participative learning	Fully covered	10	6
38	Linearity and monotonicity of Lebesgue integral	22-01-24	1	2	Participative learning	Fully covered	10	6
39	Riemann integrals	19-01-24	1	2	Participative learning	Fully covered	10	8
40	Dirchlet function	19-01-24	1	2	Participative learning	Fully covered	10	8
41	Proposition 11	18-01-24	5	2	Participative learning	Fully covered	10	5
42	Lusin's theorem	17-01-24	1	2	Participative learning	Fully covered	10	9
43	Egoroff's theorem	16-01-24	5	2	Participative learning	Fully covered	10	4
44	Littlewoods principle	15-01-24	1	2	Participative learning	Fully covered	10	8
45	Simple approximation lemma and theorem	12-01-24	3	2	Participative learning	Fully covered	10	6
46	Theorem 6	11-01-24	4	2	Participative learning	Fully covered	10	9
47	Convergence	11-01-24	4	2	Participative learning	Fully covered	10	9
48	Proposition 4,5	09-01-24	5	2	Participative learning	Fully covered	10	8
49	Proposition 1	05-01-24	3	2	Participative learning	Fully covered	10	7
50	Proposition 2,3	05-01-24	3	2	Participative learning	Fully covered	10	7
51	Lebesgue measurable functions	04-01-24	2	2	Participative learning	Fully covered	10	9
52	Vitalis theorem	03-01-24	1	1	Participative learning	Fully covered	10	6
53	Cantor set and proposition 19	03-01-24	1	1	Participative learning	Fully covered	10	6
54	Continuity of measure	20-12-23	1	1	Participative learning	Fully covered	10	9
55	Borel cantelli lemma	20-12-23	1	1	Participative learning	Fully covered	10	9
	Non measurable				Participative	Fully		

56	set	20-12-23	1	1	learning	covered	10	9
57	Theorem 12	19-12-23	5	1	Participative learning	Fully covered	10	7
58	Proposition 13 and theorem 14	19-12-23	5	1	Participative learning	Fully covered	10	7
59	Borel set , Theorem 9	16-12-23	1	1	Participative learning	Fully covered	10	10
60	Theorem 11	16-12-23	1	1	Participative learning	Fully covered	10	10
61	Theorem 12	16-12-23	1	1	Participative learning	Partially covered	10	10
62	Proposition 8	12-12-23	5	1	Participative learning	Fully covered	10	8
63	Proposition 7	12-12-23	5	1	Participative learning	Fully covered	10	8
64	Problems	11-12-23	1	1	Participative learning	Fully covered	10	6
65	Proposition 6	11-12-23	1	1	Participative learning	Fully covered	10	6
66	Proposition 7	11-12-23	1	1	Participative learning	Partially covered	10	6
67	Proposition 4	05-12-23	5	1	Participative learning	Fully covered	10	0
68	Proposition 5	05-12-23	5	1	Participative learning	Fully covered	10	0
69	Properties of outer measure	04-12-23	1	1	Participative learning	Fully covered	10	7
70	Proposition 1	01-12-23	3	1	Participative learning	Fully covered	10	9
71	Proposition 2,3	01-12-23	3	1	Participative learning	Fully covered	10	9
72	Measure introduction	29-11-23	1	1	Participative learning	Fully covered	10	9
73	Sigma algebra	29-11-23	1	1	Participative learning	Fully covered	10	9
74	Lebesgue measure and outer measure	29-11-23	1	1	Participative learning	Fully covered	10	9

Signature of HOD   **Signature of Principal**