



Department: MATHEMATICS Batch: BSC MAT 2021 Semester: Course Completed

Subject Planner Report (Proposed) Of CC20UMTS6B12 Calculus of Multivariable

Sl.no	Topic Name	Description	Date	Hour	Module	Mode of Instruction	Teaching Pedagogy
1	Stokes theorem problems	Stokes theorem problems	23-02-2024	5	4	Practical	Participative learning
2	Stokes theorem	Stokes theorem	22-02-2024	3	4	Lecture	Participative learning
3	Divergence theorem problems	Divergence theorem problems	21-02-2024	2	4	Practical	Participative learning
4	Divergence theorem	Divergence theorem	20-02-2024	2	4	Lecture	Participative learning
5	Surface integrals problems	Surface integrals problems	19-02-2024	4	4	Lecture	Participative learning
6	Surface integrals	Surface integrals	17-02-2024	4	4	Lecture	Participative learning
7	Parametric surfaces	Parametric surfaces	16-02-2024	5	4	Lecture	Participative learning
8	Green's theorem problems	Green's theorem problems	15-02-2024	3	4	Lecture	Participative learning
9	Green's theorem	Green's theorem	14-02-2024	2	4	Lecture	Participative learning
10	Conservative vector fields	Conservative vector fields	13-02-2024	2	4	Lecture	Participative learning
11	Path independence	Path independence	12-02-2024	4	4	Lecture	Participative learning
12	Line integrals in space	Line integrals in space	09-02-2024	5	4	Lecture	Participative learning
13	Line integrals in plane	Line integrals in plane	08-02-2024	3	4	Lecture	Participative learning
14	Curl	Curl	07-02-2024	2	4	Lecture	Participative learning
15	Divergence	Divergence	06-02-2024	2	4	Lecture	Participative learning
16	Vector fields	Vector fields	05-02-2024	4	4	Lecture	Participative learning
	Change in	Change in					Participative

36	Volume of solid	Volume of solid	09-01-2024	2	3	Lecture	learning
37	Double integrals	Double integrals	08-01-2024	4	3	Lecture	Participative learning
38	Double integrals introduction	Double integrals introduction	05-01-2024	5	3	Lecture	Participative learning
39	2 constraints	2 constraints	04-01-2024	3	2	Lecture	Participative learning
40	Problems	Problems	03-01-2024	2	2	Lecture	Participative learning
41	Lagrange multipliers	Lagrange multipliers	21-12-2023	3	2	Lecture	Participative learning
42	Constrained maxima and minima	Constrained maxima and minima	20-12-2023	2	2	Lecture	Participative learning
43	Absolute extremum	Absolute extremum	19-12-2023	2	2	Lecture	Participative learning
44	Second derivative test	Second derivative test	18-12-2023	4	2	Lecture	Participative learning
45	Relative extremum	Relative extremum	16-12-2023	2	2	Lecture	Participative learning
46	Gradient	Gradient	15-12-2023	5	2	Lecture	Participative learning
47	Problems related to tangent planes and normal lines	Problems related to tangent planes and normal lines	14-12-2023	3	2	Lecture	Participative learning
48	Tangent planes and normal lines	Tangent planes and normal lines	13-12-2023	2	2	Lecture	Participative learning
49	Problems related to normal lines	Problems related to normal lines	12-12-2023	2	2	Lecture	Participative learning
50	Normal lines introduction	Normal lines introduction	11-12-2023	4	2	Lecture	Participative learning
51	Problems	Problems	08-12-2023	5	2	Lecture	Participative learning
52	Tangent planes introduction	Tangent planes introduction	07-12-2023	3	2	Lecture	Participative learning
53	Problems	Problems	06-12-2023	2	2	Lecture	Participative learning
54	Geometric interpretation of	Geometric interpretation of	05-12-2023	2	2	Lecture	Participative learning

72	Higher order derivative	Higher order derivative	08-11-2023	2	1	Lecture	Participative learning
73	Implicit differentiation	Implicit differentiation	07-11-2023	2	1	Lecture	Participative learning
74	Partial derivative	Partial derivative	06-11-2023	4	1	Lecture	Participative learning
75	Continuity	Continuity	03-11-2023	5	1	Lecture	Participative learning
76	problems related to domain and range	problems related to domain and range	02-11-2023	3	1	Practical	participative learning
77	domain and range	domain and range	01-11-2023	2	1	Lecture	participative learning
78	graphs of functions of two variables	graphs of functions of two variables	31-10-2023	2	1	Lecture	participative learning
79	functions of 2 variables	functions of 2 variables	30-10-2023	4	1	Lecture	participative learning

Signature of Faculty

Signature of HOD

Signature of Principal



Department:MATHEMATICS Batch:BSC MAT 2021 Semester:Course Completed

Handling faculty:- ANAND M S

Subject Planner Report (Actual) Of CC20UMTS6B12 Calculus of Multivariable

Sl.No	Topic Name	Date	Hour	Module	Teaching Pedagogy	Portion Status	Subject Strength	Students Attended
1	Divergence theorem problems	22-02-24	2	4	Participative learning	Fully covered	47	29
2	Stokes theorem	22-02-24	2	4	Participative learning	Fully covered	47	29
3	Stokes theorem problems	22-02-24	3	4	Participative learning	Fully covered	47	30
4	Divergence theorem	16-02-24	5	4	Participative learning	Fully covered	47	27
5	Surface integrals	15-02-24	3	4	Participative learning	Fully covered	47	43
6	Surface integrals problems	15-02-24	3	4	Participative learning	Fully covered	47	43
7	Green's theorem problems	12-02-24	4	4	Participative learning	Fully covered	47	34
8	Parametric surfaces	12-02-24	4	4	Participative learning	Fully covered	47	34
9	Conservative vector fields	07-02-24	2	4	Participative learning	Fully covered	47	42
10	Green's theorem	07-02-24	2	4	Participative learning	Fully covered	47	42
11	Line integrals in space	02-02-24	5	4	Participative learning	Fully covered	47	45
12	Path independence	02-02-24	5	4	Participative learning	Fully covered	47	45
13	Line integrals in plane	01-02-24	3	4	Participative learning	Fully covered	47	46
14	Divergence	31-01-24	2	4	Participative learning	Fully covered	47	43
15	Curl	31-01-24	2	4	Participative learning	Fully covered	47	43
16	Vector fields	30-01-24	2	4	Participative learning	Fully covered	47	40
17	Problems	29-01-24	4	3	Participative learning	Fully covered	47	38
	Change in							

18	variables in triple integrals	29-01-24	4	3	Participative learning	Fully covered	47	38
19	Change in variables in double integral	22-01-24	4	3	Participative learning	Fully covered	47	26
20	Cylindrical coordinates	19-01-24	4	3	Participative learning	Fully covered	47	36
21	Spherical coordinates	19-01-24	5	3	Participative learning	Fully covered	47	37
22	Spherical coordinates problems	19-01-24	5	3	Participative learning	Fully covered	47	37
23	Mass and volume	18-01-24	3	3	Participative learning	Fully covered	47	38
24	Moment of inertia	18-01-24	4	3	Participative learning	Fully covered	47	36
25	Triple integrals over rectangular box	17-01-24	2	3	Participative learning	Fully covered	47	39
26	Triple integrals	17-01-24	2	3	Participative learning	Fully covered	47	39
27	Surface area	16-01-24	2	3	Participative learning	Fully covered	47	40
28	Surface area related problems	16-01-24	2	3	Participative learning	Fully covered	47	40
29	Centre of mass of lamina	15-01-24	4	3	Participative learning	Fully covered	47	38
30	Moments of inertia of lamina	15-01-24	4	3	Participative learning	Fully covered	47	38
31	Mass of a lamina	12-01-24	5	3	Participative learning	Fully covered	47	29
32	Problems	11-01-24	2	3	Participative learning	Fully covered	47	39
33	Polar rectangles	11-01-24	2	3	Participative learning	Fully covered	47	39
34	Double integrals over general regions	11-01-24	3	3	Participative learning	Fully covered	47	39
35	Volume of solid	10-01-24	3	3	Participative learning	Fully covered	47	40
36	Fubinis theorem	10-01-24	3	3	Participative learning	Fully covered	47	40
	Double integrals				Participative	Fully		

37	introduction	09-01-24	2	3	learning	covered	47	40
38	Double integrals	09-01-24	2	3	Participative learning	Fully covered	47	40
39	Problems	05-01-24	5	2	Participative learning	Fully covered	47	38
40	2 constraints	05-01-24	5	2	Participative learning	Fully covered	47	38
41	Lagrange multipliers	04-01-24	3	2	Participative learning	Fully covered	47	36
42	Absolute extremum	04-01-24	3	2	Participative learning	Fully covered	47	36
43	Constrained maxima and minima	04-01-24	3	2	Participative learning	Fully covered	47	36
44	Gradient	03-01-24	2	2	Participative learning	Fully covered	47	31
45	Relative extremum	03-01-24	2	2	Participative learning	Fully covered	47	31
46	Second derivative test	03-01-24	2	2	Participative learning	Fully covered	47	31
47	Problems related to normal lines	20-12-23	2	2	Participative learning	Fully covered	47	37
48	Tangent planes and normal lines	20-12-23	2	2	Participative learning	Fully covered	47	37
49	Problems related to tangent planes and normal lines	20-12-23	2	2	Participative learning	Fully covered	47	37
50	Tangent planes introduction	19-12-23	1	2	Participative learning	Fully covered	47	38
51	Problems	19-12-23	1	2	Participative learning	Fully covered	47	38
52	Normal lines introduction	19-12-23	2	2	Participative learning	Fully covered	47	38
53	Problems related to normal lines	19-12-23	2	2	Participative learning	Partially covered	47	38
54	Geometric interpretation of gradient	16-12-23	2	2	Participative learning	Fully covered	47	27
55	Problems	16-12-23	2	2	Participative learning	Fully covered	47	27

56	Revision	12-12-23	4	2	Participative learning	Fully covered	47	34
57	Problems related to electric potential	11-12-23	4	2	Participative learning	Fully covered	47	37
58	Quickest descent	11-12-23	4	2	Participative learning	Fully covered	47	37
59	Revision	11-12-23	4	2	Participative learning	Fully covered	47	37
60	Problems related to directional derivative	05-12-23	2	2	Participative learning	Fully covered	47	38
61	Gradient of functions of 2 variables	05-12-23	2	2	Participative learning	Fully covered	47	38
62	Properties of gradient	04-12-23	4	2	Participative learning	Fully covered	47	36
63	3 variables	04-12-23	4	2	Participative learning	Fully covered	47	36
64	Problems	29-11-23	3	1	Participative learning	Fully covered	47	34
65	Directional derivative	29-11-23	3	2	Participative learning	Fully covered	47	34
66	Chain rule for function involving two independent variables	27-11-23	3	1	Participative learning	Fully covered	47	34
67	General chain rule	27-11-23	3	1	Participative learning	Fully covered	47	34
68	Implicit differentiation	27-11-23	4	1	Participative learning	Fully covered	47	32
69	Function of three or more variables	24-11-23	4	1	Participative learning	Fully covered	47	33
70	Chain rule	24-11-23	5	1	Participative learning	Fully covered	47	34
71	Chain rule for function involving two independent variables	24-11-23	5	1	Participative learning	Partially covered	47	34
72	Differentiability and continuity	23-11-23	3	1	Participative learning	Fully covered	47	38

73	Higher order derivative	21-11-23	2	1	Participative learning	Fully covered	47	38
74	Increment and total differential	21-11-23	2	1	Participative learning	Fully covered	47	38
75	Implicit differentiation	17-11-23	3	1	Participative learning	Fully covered	47	40
76	Continuity	16-11-23	2	1	Participative learning	Fully covered	47	33
77	Partial derivative	16-11-23	2	1	Participative learning	Fully covered	47	33
78	domain and range	15-11-23	1	1	participative learning	Fully covered	47	45
79	problems related to domain and range	15-11-23	1	1	participative learning	Fully covered	47	45
80	functions of 2 variables	14-11-23	1	1	participative learning	Fully covered	47	42
81	graphs of functions of two variables	14-11-23	1	1	participative learning	Fully covered	47	42

Signature of HOD

Signature of Principal