GOVT CO-ED POLYTECHNIC RAIPUR

SESSION: April - May 2025

SUBJECT NAME : APPLIED MATHS II

SUBJECT CODE: 2000272(014)

LECTURE NO.	UNIT NO.	SUB TOPIC TO BE COVERED UNDER THIS UNIT	PLANNED DATE	EXECUTION DATE	REMARK
1	1	1.1 Simple Integration	3/3/25	27/3/25	
2		1.2 Rules of Integration and	5/3/25	2/4/25	
3		1.3 Integration of standard functions.	5/3/25	2/4/25	
4		1.4 Methods of Integration:	10/3/25	3/4/25	
5		1.5 Integration by substitution.	12/3/25	3/4/25	
6		1.6 Integration by parts	12/3/25	5/4/25	2 Hrs.
7		1.7 Integration by partialfractions	17/3/25	7/4/25	2 Hrs.
8	2	2.1 Application of Integral Calculas	19/3/25	9/4/25	
9		2.2 Definite Integration		9/4/25	
10		2.3 Numerical: Definite Integral	19/3/25	11/4/25	
11		2.4 Properties of definite integration	24/3/25	16/4/25	
12		2.5 Applications of Integration		16/4/25	
13		2.6 Numerical of Application of integration	26/3/25	22/4/25	2 Hrs.
14		2.7 Area under the curve	26/3/25	23/4/25	
15		2.8 Numericals	2/4/25	23/4/25	2 Hrs.
16		2.9 Area between two curves		25/4/25	
17		2.10 Numericals	2/4/25	5/5/25	
18		2.11 Practice Questions			
19	3	3.1 Differential equations of first order and first degree	7/4/25	7/5/25	2 Hrs.
20		3.2 Concept of diferential equations	9/4/25	8/5/25	
21		3.3 Numericals & Practice questions		14/5/25	
22		3.4 Order degree and formation of differential equations	16/4/25	14/5/25	
23		3.5 Numerical	16/4/25	15/5/25	
24		3.6 Solution of differential equation	21/4/25	16/5/25	

25		3.7 Practice questions	23|4|25	18|6|25	
26		3.8 Variable seperable form	23|4|25	25|6|25	
27		3.9 Numerical with examples	28|4|25	25|6|25	2 Hrs.
28		3.10 Homoeneous differential equations	30|4|25	30|6|25	
29		3.11 Linear differential equations	30|4|25	5|7|25	
30	4	4.1 Numerical solution of equations	5|5|25	5|7|25	
31		4.2 Introduction of algebraic and transcedental equations	7|5|25	7|7|25	
32		4.3 Numerical	12|5|25	8|7|25	2 Hrs.
33		4.4 Bisection Method	14|5|25	9|7|25	
34		4.5 Regula Falsi Method	14|5|25	14|7|25	
35		4.6 Newton-Raphson Method	19|5|25	17|7|25	2 Hrs.
36		4.7 Numerical equation	21|5|25	22|7|25	
37	5	5.1 Numerical Integration	26|5|25	22|7|25	
38		5.2 Introduction to numerical integration	28|5|25	23|7|25	
39		5.3 Trapezoidal Rule	28|5|25	23|7|25	
40		5.4 Integration by trapezoidal rule	2|6|25	23|7|25	
41		5.5 Numerical	4|6|25	29|7|25	
42		5.6 Simpson's one third rule	4|6|25	1|8|25	2 Hrs.
43		5.7 Numerical	9|6|25	1|8|25	
44		5.8 Integration by Simpson's one third Rule	11|6|25	1|8|25	
45		5.9 Simpson three eighth rule	11|6|25	4|8|25	
46		5.10 Integration by Simpson Three Eighth rule	16|6|25	4|8|25	
47		5.11 Numerical	18|6|25	6|8|25	
48		5.12 Practice questions	18|6|25	6|8|25	

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1	1	1.1 Simple Integration	4/3/25	27/3/25	
2		1.2 Rules of integration and	7/3/25	27/3/25	
3		1.3 integration of standard functions.	7/3/25	28/3/25	2 Hrs.
4		1.4 Methods of Integration:	11/3/25	1/4/25	
5		1.5 Integration by substitution.	18/3/25	3/4/25	
6		1.6 Integration by parts	20/3/25	3/4/25	
7		1.7 Integration by partialfractions	20/3/25	4/4/25	
8	2	2.1 Application of Integral Calculas	25/3/25	3/4/25	
9		2.2 Definite Integration		5/4/25	2 Hrs.
10		2.3 Numerical: Definite Integral	7 11/4/25	11/4/25	
11		2.4 Properties of definite integration	4/4/25	15/4/25	2 Hrs.
12		2.5 Applications of Integration	4/4/25	22/4/25	
13		2.6 Numerical of Application of integration	8/4/25	22/4/25	
14		2.7 Area under the curve	15/4/25	23/4/25	
15		2.8 Numericals	7 10/4/25	23/4/25	
16		2.9 Area between two curves		25/4/25	
17		2.10 Numericals	18/4/25	2/5/25	2 Hrs
18		2.11 Practice Questions	22/4/25	6/5/25 10/5/25	2 Hrs.
19	3	3.1 Differential equations of first order and first degree	25/4/25	13/5/25	
20		3.2 Concept of diferential equations	25/4/25	13/5/25	
21		3.3 Numericals & Practice questions	7 29/4/25	16/5/25	2 Hrs.
22		3.4 Order degree and formation of differential equations		17/6/25	
23		3.5 Numerical	2/5/25	17/6/25	
24		3.6 Solution of differential equation			

25		3.7 Practice questions	2/5/25	20/6/25	2 Hrs.
26		3.8 Variable seperable form	~~5/5/25~~	25/6/25	
27		3.9 Numerical with examples		25/6/25	
28		3.10 Homoeneous differential equations	~~9~~/5/25	26/6/25	2 Hrs.
29		3.11 Linear differential equations	9/5/25	30/6/25	2 Hrs.
30	4	4.1 Numerical solution of equations	13/5/25	5/7/25	
31		4.2 Introduction of algebraic and transcedental equations	16/5/25	5/7/25	
32		4.3 Numerical	16/5/25	7/7/25	
33		4.4 Bisection Method	~~20/5/25~~	7/7/25	
34		4.5 Regula Falsi Method		9/7/25	
35		4.6 Newton-Raphson Method	23/5/25	9/7/25	2 Hrs.
36		4.7 Numerical equation	23/5/25	11/7/25	
37	5	5.1 Numerical Integration	~~26/5/25~~	11/7/25	
38		5.2 Introduction to numerical integration		15/7/25	2 Hrs.
39		5.3 Trapezoidal Rule	30/5/25	18/7/25	
40		5.4 Integration by trapezoidal rule	30/5/25	18/7/25	
41		5.5 Numerical	~~3/6/25~~	23/7/25	
42		5.6 Simpson's one third rule	6/6/25	23/7/25	
43		5.7 Numerical	6/6/25	25/7/25	
44		5.8 Integration by Simpson's one third Rule	9/6/25	28/7/25	2 Hrs.
45		5.9 Simpson three eighth rule	13/6/25	29/7/25	2 Hrs.
46		5.10 Integration by Simpson Three Eighth rule	13/6/25	1/8/25	
47		5.11 Numerical	17/6/25	4/8/25	
48		5.12 Practice questions	17/6/25	6/8/25.	