



CO-ATTAINMENT

ACADEMIC YEAR 2019-20

Programme Name : B.Sc. Mathematics, Physics and Chemistry

Course Name : Numerical Analysis

Semester : VI

Course Outcomes	DESCRIPTION
CO1	understand the theoretical and practical aspects of the use of numerical analysis.
CO2	The course will also develop an understanding of the elements of error analysis for numerical methods and certain proofs.
CO3	Establish the limitations, advantages, and disadvantages of numerical analysis
CO4	Analyse and evaluate the accuracy of common numerical methods

CO-PO MATRIX

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO ₁	PSO2	PSO ₃
CO1	3	2	3	3	2	3	2	3	2	3
CO2	2	3	1	3	3	1	3	3	2	2
CO3	3	3	3	1	3	3	3	3	3	1
CO4	2	3	3	2	3	3	2	3	3	3
TOTAL	10	11	10	9	11	10	10	12	10	9
WEIGHTAGE	2.5	2.75	2.5	2.25	2.75	2.5	2.5	3	2.5	2.25

PO & PSO MATRIX

COURSE NAME	COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
Numerical Analysis	1662108	2.5	2.75	2.5	2.25	2.75	2.5	2.5	3	2.5	2.25
Analog and Digital Electronics	1662207	3	2.5	2.25	1.5	2.5	1.5	1	1	1.5	3
Analysis of Applied Industrial Products	1652315	2.25	2.25	3	2.5	2.5	2.5	2.75	2.75	3	2.5
Inorganic Materials of Industrial Importance	1652314	2	2.5	2.5	3	2.75	2	2.75	2.25	2.5	2.5
Fuel Chemistry and Batteries	1652313	3	3	2.75	2.25	3	2	2.5	3	2.5	2.5
Environmental Chemistry	1662308	3	2.75	2	2.75	2.5	2.75	2.5	1.5	2	2

V.S.M. COLLEGE(A) : : RAMACHANDRAPURAM
Affiliated to Adikavi Nannaya University
Award Sheet MID – I Examinations Nov.-2020

Academic Year : 2019-20
 Programme : B.Sc. Mathematics, Physics and Chemistry
 Course : Numerical Analysis
 Semester : VI
 Faculty : S. Manikanta, Lecturer in Mathematics
 Threshold : 60%
 No. of Students : 61

S.No.	Hall Ticket No.	Section-A			Section-B		TOTAL
		Q1 (4 M)	Q2 (4 M)	Q3 (4 M)	Q4 (7 M)	Q5 (7 M)	
		CO 1	CO 2	CO 2	CO 1	CO 2	
1	2172001	4	3		7		14
2	2172002			2	3		5
3	2172003	3				6	9
4	2172004		2	2	4		8
5	2172005	3	2			5	10
6	2172006						A
7	2172007			2	5		7
8	2172008		3			6	9
9	2172009	3			5		8
10	2172010	2	2		6		10
11	2172011						0
12	2172012	3	1				4
13	2172013			3	6		9
14	2172014	2					2
15	2172015		3			5	8
16	2172017	3		3	6		12
17	2172018		2	1		5	8
18	2172020	1			4		5
19	2172021		1	1			2
20	2172022				5		5
21	2172024	2	3			3	8
22	2172025			2	2		4
23	2172026	2	3			1	6
24	2172027	4	4		7		15
25	2172028	1		1	3		5
26	2172030	3	2			6	11
27	2172031		1		2		3
28	2172033	4		3	6		13
29	2172034		2		2		4

30	2172035	2					2
31	2172036		4	4	7		15
32	2172037	3					3
33	2172038				2		2
34	2172039		3				3
35	2172042	2				2	4
36	2172043		2	3			5
37	2172044						0
38	2172045	3			5		8
39	2172046		2	3		4	9
40	2172047	2			1		3
41	2172048	1					1
42	2172049		3			5	8
43	2172050			2			2
44	2172051	3			4		7
45	2172052		2	1			3
46	2172053		3			4	7
47	2172054	4	4		6		14
48	2172056			2	4		6
49	2172057	2				3	5
50	2172058		3		5		8
51	2172060	1		1			2
52	2172061		3			3	6
53	2172062	2			3		5
54	2172063		4	4		7	15
55	2172064	3				6	9
56	2172065			2			2
57	2172066				2		2
58	2172067	1					1
59	2172068		3			5	8
60	2172069				1		1
61	2172072	4	4		6		14
	Total Marks	73	74	42	119	76	384
No. of Students Attempted	29	28	19	28	17		

Course Outcome	No. of Students attempted	Threshold Value	60% of Target Value	Target No of Students on or above threshold value	Actual no of Students on or above threshold value	Actual % of Students on or above threshold value	Level of Attainment
	1	2	3	4	5	6	7
CO 1	29	60%	2.4	18	15	51.73	2.5
CO 2	28	60%	2.4	17	16	57.2	2.82
CO 2	19	60%	2.4	12	7	36.9	1.75
CO 1	28	60%	4.2	17	14	50	2.47
CO 2	17	60%	4.2	11	10	58.9	2.73

CO1 Attainment= 2.49
CO2 Attainment= 2.43
Overall Mid-1 CO Attainment =2.46

V.S.M. COLLEGE(A) : : RAMACHANDRAPURAM
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Award Sheet MID – II Examinations Nov.-2018

Academic Year : 2019-20
Programme : B.Sc. Mathematics, Physics and Chemistry
Course : Numerical Analysis
Semester : VI
Faculty : S Manikanta, Lecturer in Mathematics
Threshold : 60%
No. of Students : 61

S.No.	Hall Ticket No.	Section-A	TOTAL
		Q1 (15M)	
1	2172001	6	6
2	2172002	4	4
3	2172003	8	8
4	2172004	3	3
5	2172005	4	4
6	2172006	7	7
7	2172007	2	2
8	2172008	6	6
9	2172009	7	7
10	2172010	7	7
11	2172011	7	7
12	2172012	4	4

13	2172013	5	5
14	2172014	6	6
15	2172015	6	6
16	2172016	7	7
17	2172017	3	3
18	2172018	5	5
19	2172019	5	5
20	2172020	3	3
21	2172021	3	3
22	2172022	4	4
23	2172023	2	2
24	2172024	11	11
25	2172025	11	11
26	2172026	1	1
27	2172027	4	4
28	2172028	9	9
29	2172029	6	6
30	2172030	5	5
31	2172031	14	14
32	2172032	4	4
33	2172033	5	5
34	2172034	4	4
35	2172035	6	6
36	2172036	7	7
37	2172037	9	9
38	2172038	14	14
39	2172039	4	4
40	2172040	4	4
41	2172041	7	7
42	2172042	8	8
43	2172043	6	6
44	2172044	5	5
45	2172045	9	9
46	2172046	4	4
47	2172047	6	6
48	2172048	5	5
49	2172049	3	3
50	2172050	0	0
51	2172051	2	2
52	2172052	1	1
53	2172053	2	2

54	2172054	6	6
55	2172055	3	3
56	2172056	5	5
57	2172057	5	5
58	2172058	6	6
59	2172059	4	4
60	2172060	9	9
61	2172061	10	10
	Total Marks	338	338
No. of Students Attempted	61		

Assessment	No. of Students attempted	Threshold Value	60% of Target Value	Target No of Students on or above threshold value	Actual no of Students on or above threshold value	Actual % of Students on or above threshold value	Level of Attainment
Mid II	1	2	3	4	5	6	7
	61	60%	9	37	9	14.8	0.73

Over all Mid-2 CO Attainment =0.73



V.S.M. COLLEGE(A) : : RAMACHANDRAPURAM
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Sem End Examinations Nov.-2018

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 Course : Numerical Analysis
 Semester : VI
 Faculty : S Manikanta, Lecturer in Mathematics
 Threshold : 60%
 No. of Students : 61

Assessment	No. of Students attempted	Threshold Value	60% of Target Value	Target No of Students on or above threshold value	Actual no of Students on or above threshold value	Actual % of Students on or above threshold value	Level of Attainment
SEE	1	2	3	4	5	6	7
	61	60%	45	37	19	31.2	1.54

Sem End CO Attainment = 1.54

Semester VI (Batch 2017-20)
Direct CO Attainment of Numerical Analysis

Course Name	CO				Total	Average (A)	25% of A is (B)	Sem End (C)	75% of C is (D)	CO attainment (B+D)
	Mid-1	Mid-2	Assignment	Others						
Numerical Analysis	2.46	0.73	3	3	9.19	2.2975	0.574375	1.54	1.155	1.729375

CO ATTAINMENT OF NUMERICAL ANALYSIS

COURSE NAME	Direct CO Attainment	80% of Direct CO Attainment(a)	Indirect CO Attainment	20% of Indirect CO Attainment(b)	CO Attainment(a+b)
Numerical Analysis	1.72938	1.3835	2.4	0.48	1.8635

PO Attainment

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
1.55	1.71	1.55	1.4	1.71	1.55	1.55	1.86	1.55	1.4

Result of PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
Numerical Analysis Weightage	2.5	2.75	2.5	2.25	2.75	2.5	2.5	3	2.5	2.25
PO Attainment	1.55	1.71	1.55	1.4	1.71	1.55	1.55	1.86	1.55	1.4

PO Corrective measures

PO	Attainment	Action Plan
PO1	1.55	Assignments
PO2	1.71	Seminars
PO3	1.55	Assignments
PO4	1.4	Remidal Classes
PO5	1.71	Seminars
PO6	1.55	Assignments
PO7	1.55	Assignments
PSO1	1.86	Study Projects
PSO2	1.55	Assignments
PSO3	1.4	Remidal Classes