



AMBEDKAR COLLEGE OF ARTS & SCIENCE, WANDOOR
(Aided by Govt. of Kerala & Affiliated to University of Calicut)
Wandoor (PO), Pin 679328, Ph: 04931-249666

acaswandoor@gmail.com, Website: www.ambedkarcollegewdr.in

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COURSE PLAN										
Course code and title	BCM3A11-BASIC NUMERICAL METHODS									
Class	II year B.Com	Semester	III / ODD							
Regulation	R-2019	Academic year	2024-25							
Course prerequisites	Basic knowledge in Secondary and Higher Secondary Education									
Course objectives	To enable the students to acquire knowledge of numerical equations, matrices and progressions									
	To acquire knowledge about financial mathematics and descriptive statistics									
	To understand, numerical equations, matrix, progression, financial mathematics, descriptive statistics and their applications.									
COURSE OUTCOMES										
At the end of the course the student would be able to...										
CO1	Demonstrate a solid understanding of fundamental mathematical and statistical concepts and process.									
CO2	Collect, organize, and present data effectively using appropriate statistical tools and visualization techniques.									
CO3	Develop critical thinking and problem-solving skills to apply mathematical and statistical methods to real-world business challenges.									
CO4	Students will apply basic numerical skills in practical scenarios, such as shopping, cooking, and financial planning.									
CO5	Students will enhance their critical thinking skills by analyzing numerical information and making informed decisions based on quantitative data.									
MAPPING OF PROGRAM OUTCOMES										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	✓		✓		✓		✓	✓		
CO2	✓		✓				✓			
CO3	✓	✓	✓		✓	✓	✓	✓		
CO4		✓	✓	✓	✓	✓	✓	✓	✓	✓
CO5	✓		✓	✓	✓			✓	✓	
PO1	Knowledge Acquisition					PO6	Ethics and Social responsibility.			



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PO2	Communication, & leadership.	PO7	Research, Innovation & entrepreneurship.
PO3	Professional Skills.	PO8	Lifelong Learning
PO4	Digital intelligence.	PO9	Global perspective.
PO5	Scientific Awareness and Critical Thinking.	PO10	Democratic Co-existence.

PROGRAM SPECIFIC OUTCOMES

PSO1	Business Knowledge, Technological Proficiency and Lifelong Learning
PSO2	Analytical Skills and Ethical Understanding for Global Perspective and Entrepreneurial thinking
PSO3	Communication Skills, Teamwork and Collaboration

MAPPING OF COURSE OUTCOMES TO PROGRAM EDUCATIONAL OUTCOMES

PROGRAM EDUCATIONAL OUTCOMES	COURSE OUTCOMES				
	CO1	CO2	CO3	CO4	CO5
PEO1: Development of Leadership Qualities	✓	✓	✓	✓	✓
PEO2: Lifelong Learning and Societal Contribution		✓	✓	✓	
PEO3: Entrepreneurial and Global Competence			✓	✓	✓

References

TEXT BOOKS:

1. L R Potti-Basic Numerical methods
2. Excel Publications – Basic numerical Skills

REFERENCES:

1. Fundamentals of Statistics – S.C.Gupta
2. Dr. Agarwal.R.S – Quantitative Aptitude for Competitive Examinations

Mode of Evaluation	Internal Examination (20%) End Semester Examination (80%)
Faculty	SHAHUL HAMEED K, Assistant Professor/ Commerce Department
e-mail id	shahulchola@gmail.com

COURSE PLAN



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BCM3A11-BASIC NUMERICAL METHODS

No of lecture hours	Planned Date	Topics to be covered	Reference/ Teaching aids and methods	Actual date	Weekly review
MODULE I - Numerical expressions and Equations					
1		Numerical expressions and Equations	T1/PPT		
2		Types of equations	T1/PPT		
3		Simple linear equation	T1/WB		
4,5		Simultaneous linear equations with 2 unknowns	T2/ WB		
6,7		Simultaneous linear equations with 3 unknowns	T1/ WB		
8		Quadratic equations- factorization	T1/ WB		
9,10		Quadratic equations- quadratic formula	T2/ WB		
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal
10					
MODULE II - Matrices					
11		Matrices: introduction - type of matrices	T1/PPT		
12		Trace and transpose and determinants of order 2	T1/WB		
13,14		Determinants of order 3 matrix	T2/WB		
15		Matrix operations – addition and subtraction	T1/WB		
16		Matrix operations – multiplication with a scalar	T2 /PPT		
17, 18		Matrix operations – multiplication of 2 matrices	T1/WB		
19, 20		Minor of a matrix	T1/PPT, WB		
21, 22		Cofactors of a matrix	T1/WB		
23, 24		Adjoint of a matrix	T2/WB		
25, 26		Inverse of a matrix	T1/WB		
27		Rank of a matrix	T1,T2/WB		
28		Solving equations by matrices: direct method	T1, T2/WB		
29, 30		Solving equations by matrices: Cramer's Rule	T1, T2/WB		
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal



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MODULE III - Sequence, Series and Progression						
31		Sequence, Series and Progression : Concepts and differences			T1/PPT	
32,33		Arithmetic progression- n th term			T2/WB	
34-36		Sum of n terms of an AP			T1/WB	
37,38		Insertion of Arithmetic means in AP			T1/WB	
39, 40		Geometric progression- n'th term			T1/PPT,WB	
41-43		Sum of n terms of an GP			T2/WB	
44		Insertion of Geometric Mean in GP			T1/WB	
45		Harmonic progression.			T1/PPT,WB	
					Review by Principal	
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD		
MODULE IV - Interest and Time value						
46		Interest and Time value: Concept of interest-Types of interest			T1/PPT	
47-49		Simple interest			T2/PPT.WB	
50-52		Compound interest			T1/PPT,WB	
53-55		Nominal, real and effective rate of interest			R1/PPT,W B	
56,57		Future value and Present Value			R1/WB	
58-61		Annuity and Perpetuity. Computing future and present values of annuity			T2/WB	
62-63		Growing period perpetuity			T1/PPT,WB	
64		Compound annual growth rate			T1/WB	
65		Equated Monthly Instalments (EMI).			T1/PPT,WB	
					Review by Principal	
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD		
MODULE V - Descriptive Statistics						
66,67		Measures of Central Tendency Arithmetic mean			T1/PPT.WB	
68-70		Measures of Central Tendency Geometric mean			R1/WB	
71		Measures of Central Tendency Harmonic Mean			T1/WB	
72,73		Measures of Central Tendency			R1/WB	



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		Median				
74,75		Measures of Central Tendency Mode		T2/WB		
76,77		Measures of Dispersion: range, mean deviation,		T2/WB		
78,79		Measures of Dispersion: quartile deviation		T1/WB		
80,81		Measures of Dispersion: standard deviation		T1/WB		
82,83		Measures of Dispersion: coefficient of variation		T1/WB		
84-86		Measures of Skewness		T1/PPT,WB		
87-90		Measures of Kurtosis.		T1/PPT,WB		
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal	

FACULTY

HOD

PRINCIPAL



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BCM4C04 QUANTITATIVE TECHNIQUES FOR BUSINESS		Cogniti ve level	Program outcomes									
			1-Low correlation			2-Moderate Correlation		3- High correlation				
			P O 1	P O 2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0
DIRECT METHOD												
CO1	Demonstrate a solid understanding of fundamental mathematical and statistical concepts and process.	Remem ber	3		2		1		1	1		
CO2	Collect, organize, and present data effectively using appropriate statistical tools and visualization techniques.	Apply	1		2				1			
CO3	Develop critical thinking and problem-solving skills to apply mathematical and statistical methods to real-world business challenges.	Apply & Analyze	3	1	2		2	1	1	2		
CO4	Students will apply basic numerical skills in practical scenarios, such as shopping, cooking, and financial planning.	Create		1	2	3	2	1	2	3	1	1
CO5	Students will enhance their critical thinking skills by analyzing numerical information and making informed decisions based on quantitative data.	Innovat e	2		2	2	2			3	1	
INDIRECT METHOD												
Class Room contests		Analyze & Create	3	1	2		1		1	2		

Course Faculty

QAC Member

HoD



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COURSE PRE-ANALYSIS

Dear Students,

Welcome back to class, I would like to thank all of you for sparing your time in filling up this Course Pre-Analysis survey for the effective conduct of Computer Aided Design and Manufacturing Course. As you know that this survey is meant for knowing the knowledge level of the students with respect to this course, please fill it very carefully. At this juncture, I am glad to welcome the suggestions from you all (if any).

Course Outcomes	Description	Rate your prior knowledge about the topics			
		Excellent (4)	Good (3)	Moderate (2)	Fair (1)
CO1	Demonstrate a solid understanding of fundamental mathematical and statistical concepts and process.		✓		
CO2	Collect, organize, and present data effectively using appropriate statistical tools and visualization techniques.		✓		
CO3	Develop critical thinking and problem-solving skills to apply mathematical and statistical methods to real-world business challenges.		✓		
CO4	Students will apply basic numerical skills in practical scenarios, such as shopping, cooking, and financial planning.	✓	✓		
CO5	Students will enhance their critical thinking skills by analyzing numerical information and making informed decisions based on quantitative data.		✓		

Name of the student:

Faminga KP

Signature of the student



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BCM3A11 BASIC NUMERICAL METHODS

Module I

Numerical expressions and Equations: Simultaneous linear equations (up to three variables), Quadratic equations in one variable-factorization and quadratic formula

Module II

Matrices: introduction - type of matrices – trace and transpose and determinants - matrix operations – adjoint and inverse –rank- solving equations by matrices: Cramer's Rule (not more than three variables).

Module III

Sequence, Series and Progression : Concepts and differences - Arithmetic progression- nth term and sum of n terms of an AP - Insertion of Arithmetic means in AP - Geometric progression- nth term and sum of n terms of an GP - Insertion of Geometric Mean in GP - Harmonic progression.

Module IV

Interest and Time value: Concept of interest-Types of interest: Simple interest and compound interest – nominal, real and effective rate of interest - Future value and Present Value; Annuity and Perpetuity - Computing future and present values of annuity (regular and immediate) - multi and growing period perpetuity - Compound annual growth rate - computation of Equated Monthly Instalments (EMI).

Module V

Descriptive Statistics: Measures of Central Tendency – Mean: Arithmetic mean, Geometric mean and Harmonic Mean- Median, Mode and other position values - Measures of Dispersion: mean deviation, quartile deviation, standard deviation and coefficient of variation - Measures of Skewness and Kurtosis.

(Theory and problems may be in the ratio of 20% and 80% respectively. An over view of the topics is expected and only simple problems shall be given)

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Course outcomes	Program Specific outcomes		
	PSO1	PSO2	PSO3
CO1	3	2	1
CO2	2	1	1
CO3	2	3	1
CO4	2	3	2
CO5	1	2	3

Course Faculty

IQAC Member

HoD

DIRECT ASSESSMENT OF COURSE OUTCOMES

INTERNAL ASSESSMENT TEST 40 MARKS

Objective	To Identify What Students Have Learned and also to identify students strength and weakness		
To file	Answer scripts	Frequency	Atleast 1 time in a semester



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Format	Part -A 9 x 2 = 18 max. ceiling 15 marks, Part -B 4 x 5 = 20 max. ceiling 15 marks, Part -C 1 x 10 = 10 marks, Total marks = 40, with 1 hour and 15 minutes duration of testing.
Evaluation	Based on answer given in the scripts
ASSIGNMENT: 4 MARKS	
Objective	To enhance students understanding of a complex structural problems
Product	Hand written or printed assignment sheets
Frequency	1 or 2 times in a semester
Format	Topics from syllabus
Evaluation	Based on rubrics
END SEMESTER EXAMINATION 100 MARKS (Reduced to 80 Marks)	
Objective	To assess the each student's knowledge of the course
Product	Result analysis
Frequency	Semester
Format	Part -A 15 x 2 = 30 max. ceiling 25 marks, Part -B 8 x 5 = 40 max. ceiling 35 marks, Part -C 2 x 10 = 20 Marks. Total marks = 80, Duration : 2 hours and 30 minutes
Evaluation	Based on answer given in the scripts

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THIRD SEMESTER B.COM CO-OPERATION			
2023 ADMISSION			
SUBJECT: BCM3A11- BASIC NUMERICAL METHODS			
Sl.No	Reg.No	Name	Internal Mark (40)
1	UFAXBCM001	AYISHA DILNA CHELADATHIL	40
2	UFAXBCM002	FAMINA A P	40
3	UFAXBCM003	FATHIMA NAJIYA	36
4	UFAXBCM004	FATHIMA SHERIN. C. P	40
5	UFAXBCM005	JINSHA JABIN. K	40
6	UFAXBCM006	JINSHA K	35
7	UFAXBCM007	NADIYA.T	40
8	UFAXBCM008	NAJIYA NASRIN N.T	39
9	UFAXBCM009	NASIYA NASRIN . M	40
10	UFAXBCM010	NIDHA SALEEM . T T	0
11	UFAXBCM011	RASHA	34
12	UFAXBCM012	SADIKA SHAHANAS K	40
13	UFAXBCM013	SHIBINA .P	40
14	UFAXBCM014	SHIBLA.T.M	40
15	UFAXBCM015	SHIFA NARSHA. K	40
16	UFAXBCM016	SHUHAILA .K	40
17	UFAXBCM017	SILSHA M K	40
18	UFAXBCM018	THABSHEERA.T.M	39
19	UFAXBCM019	ANSIF V	40
20	UFAXBCM021	MOHAMMED NIHAL V	29
21	UFAXBCM022	MUHAMMED HAFEEZ T	2
22	UFAXBCM023	MUHAMMED NIHAJ . T . P	25

23	UFAXBCM02 4	NASIB RAHMAN K	37
24	UFAXBCM02 5	RAMEEZ T P	22
25	UFAXBCM02 6	ADHITHYA . P	40
26	UFAXBCM02 7	ADITHYA C.	18
27	UFAXBCM02 8	AJANYA . K	12
28	UFAXBCM02 9	ANAGHA M	21
29	UFAXBCM03 0	ANASWARA ANIL.P K	40
30	UFAXBCM03 1	ANJANA. M	37
31	UFAXBCM03 2	ANJUSHA P	26
32	UFAXBCM03 3	APARNA P	13
33	UFAXBCM03 4	ASWANI KRISHNA. M	40
34	UFAXBCM03 5	BABITHA K B	16
35	UFAXBCM03 6	FAMINA . K . P	38.5
36	UFAXBCM03 7	KHADHEEJATHU SANIYYA T	40
37	UFAXBCM03 8	NAMITHA . P	16
38	UFAXBCM03 9	NANDANA K M	20
39	UFAXBCM04 0	NILSHA C.M	33
40	UFAXBCM04 1	NIRANJANA C	40
41	UFAXBCM04 2	NIVYA RAJ K	10
42	UFAXBCM04 3	PAVITHRA. V P	30
43	UFAXBCM04 4	PRAJISHA E C	8
44	UFAXBCM04 5	SANDRA V	21
45	UFAXBCM04 6	SIJISHA.M	0
46	UFAXBCM04 7	VIHANYA M	16
47	UFAXBCM04 8	VINAYA N	39
48	UFAXBCM04 9	VRINDHA K M	24
49	UFAXBCM05 0	ABHIJITH M	9

50	UFAXBCM05 1	ADARSH A	27
51	UFAXBCM05 2	ATHUL K	26
52	UFAXBCM05 3	ATHUL RAJ	10
53	UFAXBCM05 4	MUHAMMED HISHAM. P	20
54	UFAXBCM05 5	MUHAMMED SAFVAN . K . S	28
55	UFAXBCM05 6	MUHAMMED SINAN . P	22
56	UFAXBCM05 7	RISHAL K. C.	35
57	UFAXBCM05 8	ROHITH. M	14
58	UFAXBCM05 9	SOORYA PRASAD. T	24
59	UFAXBCM06 0	VINAY A	12
60	UFAXBCM06 1	VIVEK MV	11
61	UFAXBCM06 2	RINSHINA S S	33



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THIRD SEMESTER B.COM CO-OPERATION

2023 ADMISSION

SUBJECT: BCM3A11- BASIC NUMERICAL METHODS

Sl. No	Reg.No	Name	ATT END ANC E	ASSI GNM ENT	EXA M	SEM INA R	TOTAL	Signatur e
1	UFAXBCM001	AYISHA DILNA CHELADATHIL	4	4	8	4	20	
2	UFAXBCM002	FAMINA A P	4	4	8	4	20	
3	UFAXBCM003	FATHIMA NAJIYA	4	4	8	4	20	
4	UFAXBCM004	FATHIMA SHERIN. C. P	4	4	8	4	20	
5	UFAXBCM005	JINSHA JABIN. K	4	4	8	4	20	
6	UFAXBCM006	JINSHA K	4	4	8	4	20	
7	UFAXBCM007	NADIYA.T	4	4	8	4	20	
8	UFAXBCM008	NAJIYA NASRIN N T	4	4	8	4	20	
9	UFAXBCM009	NASIYA NASRIN . M	4	4	8	3.5	20	
10	UFAXBCM010	NIDHA SALEEM . T T	1	2	0	1	4	
11	UFAXBCM011	RASHA	4	4	8	4	20	
12	UFAXBCM012	SADIKA SHAHANAS K	4	4	8	3.5	20	
13	UFAXBCM013	SHIBINA .P	4	4	8	4	20	
14	UFAXBCM014	SHIBLA.T.M	4	4	8	4	20	
15	UFAXBCM015	SHIFA NARSHA. K	4	4	8	4	20	
16	UFAXBCM016	SHUHAILA .K	4	4	8	4	20	
17	UFAXBCM017	SILSHA M K	4	4	8	4	20	
18	UFAXBCM018	THABSHEERA.T.M	4	4	8	4	20	
19	UFAXBCM019	ANSIF V	4	4	8	4	20	
20	UFAXBCM021	MOHAMMED NIHAL V	2	0	6	0	8	
21	UFAXBCM022	MUHAMMED HAFEEZ T	2	2	1	2	7	
22	UFAXBCM023	MUHAMMED NIHAJ . T . P	2	4	4	4	14	
23	UFAXBCM024	NASIB RAHMAN K	2	3	8	4	17	
24	UFAXBCM025	RAMEEZ T P	2	4	4	3.5	14	
25	UFAXBCM026	ADHITHYA . P	4	4	8	4	20	
26	UFAXBCM027	ADITHYA C.	4	4	3	4	15	
27	UFAXBCM028	AJANYA . K	4	4	1	4	13	
28	UFAXBCM029	ANAGHA M	4	4	3	4	15	
29	UFAXBCM030	ANASWARA ANIL.P K	4	3	8	3	18	
30	UFAXBCM031	ANJANA. M	4	4	8	4	20	
31	UFAXBCM032	ANJUSHA P	2	4	6	3	15	
32	UFAXBCM033	APARNA P	4	4	1	3.5	13	
33	UFAXBCM034	ASWANI KRISHNA. M	4	4	8	3.5	20	
34	UFAXBCM035	BABITHA K B	2	4	2	3	11	
35	UFAXBCM036	FAMINA . K . P	2	4	8	3.5	18	
36	UFAXBCM037	KHADHEEJATHU SANIYYA T	4	4	8	4	20	
37	UFAXBCM038	NAMITHA . P	4	4	2	3.5	14	
38	UFAXBCM039	NANDANA K M	2	4	3	1	10	
39	UFAXBCM040	NILSHA C.M	2	4	6	3.5	16	

40	UFAXBCM041	NIRANJANA C	4	4	8	4	20	
41	UFAXBCM042	NIVYA RAJ K	2	4	1	3.5	11	
42	UFAXBCM043	PAVITHRA. V P	4	4	6	4	18	
43	UFAXBCM044	PRAJISHA E C	2	4	1	3	10	
44	UFAXBCM045	SANDRA V	4	4	3	3.5	15	
45	UFAXBCM046	SIJISHA.M	1	1	0	1	3	
46	UFAXBCM047	VIHANYA M	2	4	2	3	11	
47	UFAXBCM048	VINAYA N	4	4	8	4	20	
48	UFAXBCM049	VRINDHA K M	2	4	4	4	14	
49	UFAXBCM050	ABHIJITH M	2	4	1	3.5	11	
50	UFAXBCM051	ADARSH A	4	4	6	4	18	
51	UFAXBCM052	ATHUL K	4	4	6	4	18	
52	UFAXBCM053	ATHUL RAJ	4	4	1	4	13	
53	UFAXBCM054	MUHAMMED HISHAM. P	4	0	3	3	10	
54	UFAXBCM055	MUHAMMED SAFVAN . K . S	4	3	6	4	17	
55	UFAXBCM056	MUHAMMED SINAN . P	2	2.5	4	4	13	
56	UFAXBCM057	RISHAL K. C.	4	4	8	4	20	
57	UFAXBCM058	ROHITH. M	4	4	2	2	12	
58	UFAXBCM059	SOORYA PRASAD. T	4	4	4	3	15	
59	UFAXBCM060	VINAY A	1	2	1	4	8	
60	UFAXBCM061	VIVEK MV	4	0	1	3.5	9	
61	UFAXBCM062	RINSHINA S S	2	4	6	4	16	

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THIRD SEMESTER B.COM CO-OPERATION

2023 ADMISSION

ASSIGNMENT

SUBJECT: BCM3A11- BASIC NUMERICAL METHODS

Sl. No	Reg.No	Name	Topic	Marks Awarded
1	UFAXBCM001	AYISHA DILNA CHELADATHIL	compound interest	4
2	UFAXBCM002	FAMINA A P	compound interest	4
3	UFAXBCM003	FATHIMA NAJIYA	adjoint of 2*2	4
4	UFAXBCM004	FATHIMA SHERIN. C. P	sum of n terms of an AP	4
5	UFAXBCM005	JINSHA JABIN. K	rank of 2*2 matrix	4
6	UFAXBCM006	JINSHA K	simultaneous equations with 2 unkowns	4
7	UFAXBCM007	NADIYA.T	crammers rule	4
8	UFAXBCM008	NAJIYA NASRIN N T	addition of matrix	4
9	UFAXBCM009	NASIYA NASRIN . M	simple interest	4
10	UFAXBCM010	NIDHA SALEEM . T T	simple interest	2
11	UFAXBCM011	RASHA	simple interest - findout value of n	4
12	UFAXBCM012	SADIKA SHAHANAS K	adjoint of 2*2	4
13	UFAXBCM013	SHIBINA .P	determinant of 3*3 matrix	4
14	UFAXBCM014	SHIBLA.T.M	n th term of an AP	4
15	UFAXBCM015	SHIFA NARSHA. K	determinant of 3*3 matrix	4
16	UFAXBCM016	SHUHAILA .K	crammers rule	4
17	UFAXBCM017	SILSHA M K	simple interest - findout value of n	4
18	UFAXBCM018	THABSHEERA.T.M	simple interest	4
19	UFAXBCM019	ANSIF V	determinant of 3*3 matrix	4
20	UFAXBCM021	MOHAMMED NIHAL V	simple interest	0
21	UFAXBCM022	MUHAMMED HAFEEZ T	inverse of 2*2	2
22	UFAXBCM023	MUHAMMED NIHAJ . T . P	transpose	4
23	UFAXBCM024	NASIB RAHMAN K	simple interest - findout value of n	3
24	UFAXBCM025	RAMEEZ T P	determinant of 2*2 matrix	4
25	UFAXBCM026	ADHITHYA . P	determinant of 2*2 matrix	4
26	UFAXBCM027	ADITHYA C.	rank of 2*2 matrix	4
27	UFAXBCM028	AJANYA . K	quadratic equations	4
28	UFAXBCM029	ANAGHA M	simultaneous equations with 2 unkowns	4
29	UFAXBCM030	ANASWARA ANIL.P K	compound interest	3
30	UFAXBCM031	ANJANA. M	matrix operations	4
31	UFAXBCM032	ANJUSHA P	simple interest - findout value of n	4
32	UFAXBCM033	APARNA P	simultaneous equations with 2 unkowns	4
33	UFAXBCM034	ASWANI KRISHNA. M	simple interest - findout value of n	4
34	UFAXBCM035	BABITHA K B	inverse of 2*2	4
35	UFAXBCM036	FAMINA . K . P	simple interest	4
36	UFAXBCM037	KHADHEEJATHU SANIYYA T	simultaneous equations with 2 unkowns	4
37	UFAXBCM038	NAMITHA . P	simple interest	4

38	UFAXBCM039	NANDANA K M	quadratic equations	4
39	UFAXBCM040	NILSHA C.M	simultaneous equations with 2 unknowns	4
40	UFAXBCM041	NIRANJANA C	quadratic equations	4
41	UFAXBCM042	NIVYA RAJ K	crammers rule	4
42	UFAXBCM043	PAVITHRA. V P	quadratic equations	4
43	UFAXBCM044	PRAJISHA E C	addition of matrix	4
44	UFAXBCM045	SANDRA V	determinant of 2*2 matrix	1
45	UFAXBCM046	SIJISHA.M	co-factors	4
46	UFAXBCM047	VIHANYA M	simple interest	4
47	UFAXBCM048	VINAYA N	simple interest - findout value of n	4
48	UFAXBCM049	VRINDHA K M	equation using matrix	4
49	UFAXBCM050	ABHIJITH M	simultaneous equations with 2 unknowns	4
50	UFAXBCM051	ADARSH A	simple interest	4
51	UFAXBCM052	ATHUL K	simple interest - findout value of r	4
52	UFAXBCM053	ATHUL RAJ	simple interest	4
53	UFAXBCM054	MUHAMMED HISHAM. P	compound interest	0
54	UFAXBCM055	MUHAMMED SAFVAN . K . S	simple interest	3
55	UFAXBCM056	MUHAMMED SINAN . P	quadratic equations	2.5
56	UFAXBCM057	RISHAL K. C.	simple interest	4
57	UFAXBCM058	ROHITH. M	compound interest	4
58	UFAXBCM059	SOORYA PRASAD. T	simple interest	4
59	UFAXBCM060	VINAY A	Simple interest	2
60	UFAXBCM061	VIVEK MV	multiplication of matrices	0
61	UFAXBCM062	RINSHINA S S	determinant of 2*2 matrix	4



**AMBEDKAR COLLEGE OF ARTS AND SCIENCE,
WANDOOOR**

THIRD SEMESTER B.COM CO-OPERATION

2023 ADMISSION

SUBJECT: BCM3A11- BASIC NUMERICAL METHODS

Sl.No	Reg.No	Name
1	UFAXBCM001	AYISHA DILNA CHELADATHIL
2	UFAXBCM002	FAMINA A P
3	UFAXBCM003	FATHIMA NAJIYA
4	UFAXBCM004	FATHIMA SHERIN. C. P
5	UFAXBCM005	JINSHA JABIN. K
6	UFAXBCM006	JINSHA K
7	UFAXBCM007	NADIYA.T
8	UFAXBCM008	NAJIYA NASRIN N T
9	UFAXBCM009	NASIYA NASRIN . M
10	UFAXBCM010	NIDHA SALEEM . T T
11	UFAXBCM011	RASHA
12	UFAXBCM012	SADIKA SHAHANAS K
13	UFAXBCM013	SHIBINA .P
14	UFAXBCM014	SHIBLA.T.M
15	UFAXBCM015	SHIFA NARSHA. K
16	UFAXBCM016	SHUHAILA .K
17	UFAXBCM017	SILSHA M K
18	UFAXBCM018	THABSHEERA.T.M
19	UFAXBCM019	ANSIF V
20	UFAXBCM021	MOHAMMED NIHAL V
21	UFAXBCM022	MUHAMMED HAFEEZ T
22	UFAXBCM023	MUHAMMED NIHAJ . T . P

23	UFAXBCM02 4	NASIB RAHMAN K
24	UFAXBCM02 5	RAMEEZ T P
25	UFAXBCM02 6	ADHITHYA . P
26	UFAXBCM02 7	ADITHYA C.
27	UFAXBCM02 8	AJANYA . K
28	UFAXBCM02 9	ANAGHA M
29	UFAXBCM03 0	ANASWARA ANIL.P K
30	UFAXBCM03 1	ANJANA. M
31	UFAXBCM03 2	ANJUSHA P
32	UFAXBCM03 3	APARNA P
33	UFAXBCM03 4	ASWANI KRISHNA. M
34	UFAXBCM03 5	BABITHA K B
35	UFAXBCM03 6	FAMINA . K . P
36	UFAXBCM03 7	KHADHEEJATHU SANIYYA T
37	UFAXBCM03 8	NAMITHA . P
38	UFAXBCM03 9	NANDANA K M
39	UFAXBCM04 0	NILSHA C.M
40	UFAXBCM04 1	NIRANJANA C
41	UFAXBCM04 2	NIVYA RAJ K
42	UFAXBCM04 3	PAVITHRA. V P
43	UFAXBCM04 4	PRAJISHA E C
44	UFAXBCM04 5	SANDRA V
45	UFAXBCM04 6	SIJISHA.M
46	UFAXBCM04 7	VIHANYA M
47	UFAXBCM04 8	VINAYA N
48	UFAXBCM04 9	VRINDHA K M
49	UFAXBCM05 0	ABHIJITH M

50	UFAXBCM05 1	ADARSH A
51	UFAXBCM05 2	ATHUL K
52	UFAXBCM05 3	ATHUL RAJ
53	UFAXBCM05 4	MUHAMMED HISHAM. P
54	UFAXBCM05 5	MUHAMMED SAFVAN . K . S
55	UFAXBCM05 6	MUHAMMED SINAN . P
56	UFAXBCM05 7	RISHAL K. C.
57	UFAXBCM05 8	ROHITH. M
58	UFAXBCM05 9	SOORYA PRASAD. T
59	UFAXBCM06 0	VINAY A
60	UFAXBCM06 1	VIVEK MV
61	UFAXBCM06 2	RINSHINA S S



AMBEDKAR COLLEGE OF ARTS AND SCIENCE, WANDOOOR		
THIRD SEMESTER B.COM CO-OPERATION		
2023 ADMISSION		
SUBJECT: BCM3A11- BASIC NUMERICAL METHODS		
LIST OF SLOW LEARNERS		
SL.N o	Reg.No	Name
1	UFAXBCM02 2	MUHAMMED HAFEEZ T
2	UFAXBCM03 3	APARNA P
3	UFAXBCM04 2	NIVYA RAJ K
4	UFAXBCM04 4	PRAJISHA E C
5	UFAXBCM05 0	ABHIJITH M
6	UFAXBCM05 3	ATHUL RAJ
7	UFAXBCM06 0	VINAY A
8	UFAXBCM06 1	VIVEK MV

- Students scoring less than 35% of marks in internal examination




AMBEDKAR COLLEGE OF ARTS AND SCIENCE, WANDOOR

Third Semester B.com – Internal Examination November 2024

BCM3A11-Basic Numerical Methods

Time : 1 Hour and 15 minutes

Maximum Marks : 40

Answer at least Eight Questions each carries two marks. All questions can be attended.

Overall ceiling 15

1. Solve $2x^2 - 72$
2. Define Skew Symmetric Matrix.
3. Solve $7x - 21 - 3x + 13 = 7 + 6x - 19$
4. $A = \begin{bmatrix} & \\ & \end{bmatrix}$ Find transpose.
5. Check whether $A =$ is singular or Non-singular.
6. Differentiate Row and Column Matrix?
7. What is Quadratic Equation?
8. Find trace of $A =$
9. What do you mean by Linear Equations?

Answer at least Three Questions each carries Five marks. All questions can be attended.

Overall ceiling 15

10. Solve $2x + 5y = 7$ and $4x - y = 3$
11. $A = \begin{bmatrix} & \\ & \end{bmatrix}$, $B = \begin{bmatrix} & \\ & \end{bmatrix}$ and $C = \begin{bmatrix} & \\ & \end{bmatrix}$ Find $(AB)' - 2C$
12. Solve $x^2 - 6x + 8 = 0$
13. Find Inverse of $A = \begin{bmatrix} & \\ & \end{bmatrix}$

Answer at any One Question carries ten marks.

14. Find Inverse of $A = \begin{bmatrix} & \\ & \end{bmatrix}$
15. Solve $2x + 3y - z = 4$

$$4x + 6y + z = 11 \text{ and}$$

$$x - 3y + z = -1$$



AMBEDKAR COLLEGE OF ARTS AND SCIENCE, WANDOOOR				
THIRD SEMESTER B.COM CO-OPERATION				
2023 ADMISSION				
SEMINAR				
SUBJECT: BCM3A11- BASIC NUMERICAL METHODS				
Sl. No	Reg.No	Name	Topic	Marks Awarded
1	UFAXBCM001	AYISHA DILNA CHELADATHIL	compound interest	4
2	UFAXBCM002	FAMINA A P	compound interest	4
3	UFAXBCM003	FATHIMA NAJIYA	adjoint of 2×2	4
4	UFAXBCM004	FATHIMA SHERIN. C. P	sum of n terms of an AP	4
5	UFAXBCM005	JINSHA JABIN. K	rank of 2×2 matrix	4
6	UFAXBCM006	JINSHA K	simultaneous equations with 2 unk	4
7	UFAXBCM007	NADIYA.T	crammers rule	4
8	UFAXBCM008	NAJIYA NASRIN N T	addition of matrix	4
9	UFAXBCM009	NASIYA NASRIN . M	simple interest	3.5
10	UFAXBCM010	NIDHA SALEEM . T T	simple interest	1
11	UFAXBCM011	RASHA	simple interest - findout value of n	4
12	UFAXBCM012	SADIKA SHAHANAS K	adjoint of 2×2	3.5
13	UFAXBCM013	SHIBINA .P	determinant of 3×3 matrix	4
14	UFAXBCM014	SHIBLA.T.M	n th term of an AP	4
15	UFAXBCM015	SHIFA NARSHA. K	determinant of 3×3 matrix	4
16	UFAXBCM016	SHUHAILA .K	crammers rule	4
17	UFAXBCM017	SILSHA M K	simple interest - findout value of n	4
18	UFAXBCM018	THABSHEERA.T.M	simple interest	4
19	UFAXBCM019	ANSIF V	determinant of 3×3 matrix	4
20	UFAXBCM021	MOHAMMED NIHAL V	simple interest	0
21	UFAXBCM022	MUHAMMED HAFEEZ T	inverse of 2×2	2
22	UFAXBCM023	MUHAMMED NIHAJ . T . P	transpose	4
23	UFAXBCM024	NASIB RAHMAN K	simple interest - findout value of n	4
24	UFAXBCM025	RAMEEZ T P	determinant of 2×2 matrix	3.5
25	UFAXBCM026	ADHITHYA . P	determinant of 2×2 matrix	4
26	UFAXBCM027	ADITHYA C.	rank of 2×2 matrix	4
27	UFAXBCM028	AJANYA . K	quadratic equations	4
28	UFAXBCM029	ANAGHA M	simultaneous equations with 2 unk	4
29	UFAXBCM030	ANASWARA ANIL.P K	compound interest	3
30	UFAXBCM031	ANJANA. M	matrix operations	4
31	UFAXBCM032	ANJUSHA P	simple interest - findout value of n	3
32	UFAXBCM033	APARNA P	simultaneous equations with 2 unk	3.5
33	UFAXBCM034	ASWANI KRISHNA. M	simple interest - findout value of n	3.5
34	UFAXBCM035	BABITHA K B	inverse of 2×2	3
35	UFAXBCM036	FAMINA . K . P	simple interest	3.5
36	UFAXBCM037	KHADHEEJATHU SANIYYA T	simultaneous equations with 2 unk	4
37	UFAXBCM038	NAMITHA . P	simple interest	3.5
38	UFAXBCM039	NANDANA K M	quadratic equations	1
39	UFAXBCM040	NILSHA C.M	simultaneous equations with 2 unk	3.5
40	UFAXBCM041	NIRANJANA C	quadratic equations	4

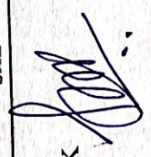
41	UFAXBCM042	NIVYA RAJ K	crammers rule	3.5
42	UFAXBCM043	PAVITHRA. V P	quadratic equations	4
43	UFAXBCM044	PRAJISHA E C	addition of matrix	3
44	UFAXBCM045	SANDRA V	determinant of 2*2 matrix	3.5
45	UFAXBCM046	SIJISHA.M	co-factors	1
46	UFAXBCM047	VIHANYA M	simple interest	3
47	UFAXBCM048	VINAYA N	simple interest - findout value of n	4
48	UFAXBCM049	VRINDHA K M	equation using matrix	4
49	UFAXBCM050	ABHIJITH M	simultaneous equations with 2 unk	3.5
50	UFAXBCM051	ADARSH A	simple interest	4
51	UFAXBCM052	ATHUL K	simple interest - findout value of r	4
52	UFAXBCM053	ATHUL RAJ	simple interest	4
53	UFAXBCM054	MUHAMMED HISHAM. P	compound interest	3
54	UFAXBCM055	MUHAMMED SAFVAN . K . S	simple interest	4
55	UFAXBCM056	MUHAMMED SINAN . P	quadratic equations	4
56	UFAXBCM057	RISHAL K. C.	simple interest	4
57	UFAXBCM058	ROHITH. M	compound interest	2
58	UFAXBCM059	SOORYA PRASAD. T	simple interest	3
59	UFAXBCM060	VINAY A	Simple interest	4
60	UFAXBCM061	VIVEK MV	multiplication of matrices	3.5
61	UFAXBCM062	RINSHINA S S	determinant of 2*2 matrix	4



AMBEDKAR COLLEGE OF ARTS AND SCIENCE, WANDOOOR									
DEPARTMENT OF COMMERCE									
ACADEMIC YEAR 2024-25									
BASIC NUMERICAL METHODS									
Days	Class	10-10.25	10.25-10.35	10.35-11.30	11.30-12.30	12.30-1.30	1.30-2.30	2.30-3.30	3.30-4.30
MON	III SEM				Basic Numerical Methods SHL*				
TUE	III SEM	Basic Numerical Methods SHL*							
WED	III SEM			Basic Numerical Methods SHL*					
THU	III SEM				Basic Numerical Methods SHL*				
FRI	III SEM								

SHL*

SHAHUL HAMEED K






AMBEDKAR COLLEGE OF ARTS & SCIENCE, WANDOOR
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DEPARTMENT OF COMMERCE
CO-PO-PSO MAPPING (ODD SEM . 2024-2025)

Semester: III

Name of the faculty member: SHAHUL HAMEED K

Course: BCM3A11-BASIC NUMERICAL METHODS

(I) CO Attainment

A: Direct assessment (80%)- Tests, Assignment, Examination
B: Indirect assessment (20%)-Course end survey

COs	Mapping of POs	Mapping of PSOs	Direct Assessment (a)	Indirect Assessment (b)	Overall Attainment 0.8 (a) + 0.2(b)	Target (%)	Attainment
CO1	PO1, PO7 & PO8	PSO3	87	77.38	85	75	YES
CO2	PO1, PO3, PO5 & PO9	PSO1, PSO2 & PSO3	87	73.44	84		
CO3	PO2, PO6 & PO10	PSO2 & PSO3	87	77.05	85		
CO4	PO1, PO5 & PO6	PSO1, PSO2 & PSO3	87	75.74	84		
CO5	PO2, PO3, PO4 & PO7	PSO1, PSO2 & PSO3	87	77.70	85		


FACULTY


HOD


PRINCIPAL



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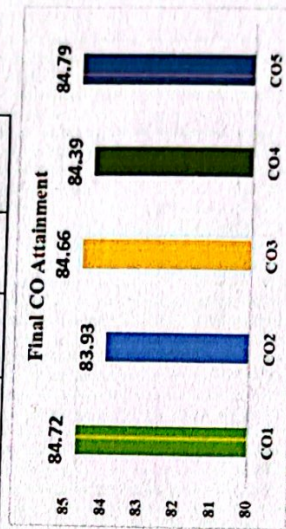
DEPARTMENT OF COMMERCE
COURSE EXIT SURVEY RESPONSES (ODD SEM. 2024-2025)
Course BCM3A11-BASIC NUMERICAL METHODS

Semester: III

Name of the faculty member: SHAHJUL HAMEED K

CO No.	CO description	Course Exit Survey Questions	No. of students given the ratings						Total Responses	Weighted Average	CO Max. Count	%age CO attainment
			0	1	2	3	4	5				
CO1	Demonstrate a solid understanding of fundamental mathematical and statistical concepts and process.	Demonstrate a solid understanding of fundamental mathematical and statistical concepts and process.	0	1	1	20	22	17	61	3.87	5	77.38
CO2	Collect, organize, and present data effectively using appropriate statistical tools and visualization techniques.	Collect, organize, and present data effectively using appropriate statistical tools and visualization techniques.	0	1	4	25	15	16	61	3.87	5	73.44
CO3	Develop critical thinking and problem-solving skills to apply mathematical and statistical methods to real-world business challenges.	Develop critical thinking and problem-solving skills to apply mathematical and statistical methods to real-world business challenges.	0	1	3	16	25	16	61	3.85	5	77.05
CO4	Students will apply basic numerical skills in practical scenarios, such as shopping, cooking, and financial planning.	Students will apply basic numerical skills in practical scenarios, such as shopping, cooking, and financial planning.	0	1	4	22	14	20	61	3.79	5	76.74
CO5	Students will enhance their critical thinking skills by analyzing numerical information and making informed decisions based on quantitative data.	Students will enhance their critical thinking skills by analyzing numerical information and making informed decisions based on quantitative data.	0	2	1	17	23	18	61	3.89	5	77.70

CO Assessment method	CO1	CO2	CO3	CO4	CO5
Direct method (IA Test, Assignment/quiz and exam)	87	87	87	87	87
Weightage (80%)	69	69	69	69	69
Indirect method (Course Exit Survey)	77.38	73.44	77.05	75.74	77.70
Weightage (20%)	15.48	14.69	15.41	15.15	15.54
Final CO Attainment	84.72	83.93	84.66	84.39	84.79



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DEPARTMENT OF COMMERCE

COURSE EXIT SURVEY RESPONSES (ODD SEM . 2024-2025)

Course: BCM3A11-BASIC NUMERICAL METHODS

Semester: III

Name of the faculty member: SHAHUL HAMEED K

Sl. No.	NAME OF THE STUDENT	REG NO	COURSE OUTCOMES					Students will apply basic numerical skills in practical scenarios, such as shopping, cooking, and financial planning.	Students will enhance their critical thinking skills by analyzing numerical information and making informed decisions based on quantitative data.
			CO1	CO2	CO3	CO4	CO5		
1	ATISHA DIVYA	UFAXBCM001	4 (Very Good)	3 (Good)	4 (Very Good)	3 (Good)	4 (Very Good)	4 (Very Good)	
2	CHELADATHIL	UFAXBCM002	5 (Excellent)	3 (Good)	4 (Very Good)	2 (Very Fair)	4 (Very Good)	4 (Very Good)	
3	FAMINA A P	UFAXBCM003	3 (Good)	3 (Good)	5 (Excellent)	3 (Good)	4 (Very Good)	4 (Very Good)	
4	FATHIMA NAJIYA	UFAXBCM004	3 (Good)	3 (Good)	4 (Very Good)	3 (Good)	4 (Very Good)	4 (Very Good)	
5	FATHIMA SHERIN. C. P	UFAXBCM005	4 (Very Good)	3 (Good)	5 (Excellent)	3 (Good)	4 (Very Good)	4 (Very Good)	
6	JINSHA JABIN. K	UFAXBCM006	5 (Excellent)	3 (Good)	3 (Good)	3 (Good)	4 (Very Good)	4 (Very Good)	
7	NADIYA T	UFAXBCM007	4 (Very Good)	2 (Very Fair)	3 (Good)	5 (Excellent)	5 (Excellent)	5 (Excellent)	
8	NAJIYA NASRIN N T	UFAXBCM008	3 (Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)	3 (Good)	3 (Good)	
9	NASIYA NASRIN . M	UFAXBCM009	3 (Good)	5 (Excellent)	5 (Excellent)	5 (Excellent)	3 (Good)	3 (Good)	
10	NIDHA SALEEM . T T	UFAXBCM010	4 (Very Good)	3 (Good)	4 (Very Good)	3 (Good)	5 (Excellent)	4 (Very Good)	
11	RASHA	UFAXBCM011	5 (Excellent)	3 (Good)	4 (Very Good)	5 (Excellent)	2 (Very Fair)	1 (Fair)	
12	SADIKA SHAHANAS K	UFAXBCM012	3 (Good)	4 (Very Good)	5 (Excellent)	4 (Very Good)	3 (Good)	3 (Good)	
13	SHIBINA . P	UFAXBCM013	3 (Good)	5 (Excellent)	3 (Good)	4 (Very Good)	3 (Good)	3 (Good)	

14	SHIBLA.T.M	UFAXBCM014	4 (Very Good)	3 (Good)	4 (Very Good)	3 (Good)	4 (Very Good)	3 (Good)	4 (Very Good)
15	SHIFA NARSHA . K	UFAXBCM015	5 (Excellent)	4 (Very Good)	5 (Excellent)	5 (Excellent)	4 (Very Good)	5 (Excellent)	4 (Very Good)
16	SHUHAILA . K	UFAXBCM016	4 (Very Good)	5 (Excellent)	4 (Very Good)	3 (Good)	5 (Excellent)	5 (Excellent)	5 (Excellent)
17	SILSHA M K	UFAXBCM017	4 (Very Good)	3 (Good)	4 (Very Good)	3 (Good)	5 (Excellent)	3 (Good)	3 (Good)
18	THABSHEERA.T.M	UFAXBCM018	3 (Good)	2 (Very Fair)	3 (Good)	4 (Very Good)	5 (Excellent)	3 (Good)	4 (Very Good)
19	ANSIF V	UFAXBCM019	5 (Excellent)	5 (Excellent)	4 (Very Good)	4 (Very Good)	5 (Excellent)	5 (Excellent)	5 (Excellent)
20	MOHAMMED NIHAL V	UFAXBCM020	3 (Good)	5 (Excellent)	4 (Very Good)	4 (Very Good)	5 (Excellent)	3 (Good)	3 (Good)
21	MUHAMMED HAFEZ T	UFAXBCM021	4 (Very Good)	3 (Good)	4 (Very Good)	4 (Very Good)	5 (Excellent)	3 (Good)	3 (Good)
22	MUHAMMED NIHAJ . T . P	UFAXBCM022	5 (Excellent)	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (Excellent)	3 (Good)	3 (Good)
23	NASIB RAHMAN K	UFAXBCM023	5 (Excellent)	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (Excellent)	3 (Good)	3 (Good)
24	RAMEEZ T P	UFAXBCM024	5 (Excellent)	5 (Excellent)	4 (Very Good)	4 (Very Good)	5 (Excellent)	3 (Good)	3 (Good)
25	ADHITHYA . P	UFAXBCM025	3 (Good)	2 (Very Fair)	3 (Good)	4 (Very Good)	5 (Excellent)	1 (Fair)	3 (Good)
26	ADITHYA C.	UFAXBCM026	2 (Very Fair)	3 (Good)	3 (Good)	3 (Good)	5 (Excellent)	3 (Good)	4 (Very Good)
27	AJANYA . K	UFAXBCM027	3 (Good)	4 (Very Good)	4 (Very Good)	3 (Good)	3 (Good)	3 (Good)	4 (Very Good)
28	ANAGHAM	UFAXBCM028	3 (Good)	3 (Good)	4 (Very Good)	3 (Good)	3 (Good)	3 (Good)	5 (Excellent)
29	ANASWARA ANIL P K	UFAXBCM029	4 (Very Good)	3 (Good)	4 (Very Good)	3 (Good)	5 (Excellent)	3 (Good)	5 (Excellent)
30	ANJANA M	UFAXBCM030	5 (Excellent)	3 (Good)	3 (Good)	3 (Good)	5 (Excellent)	3 (Good)	5 (Excellent)
31	ANJUSHA P	UFAXBCM031	3 (Good)	4 (Very Good)	3 (Good)	3 (Good)	5 (Excellent)	4 (Very Good)	4 (Very Good)
32	APARNA P	UFAXBCM032	4 (Very Good)	5 (Excellent)	4 (Very Good)	4 (Very Good)	2 (Very Fair)	1 (Fair)	3 (Good)
33	ASWANI KRISHNA . M	UFAXBCM033	5 (Excellent)	3 (Good)	5 (Excellent)	3 (Good)	4 (Very Good)	3 (Good)	3 (Good)
34	BABITHA K B	UFAXBCM034	1 (Fair)	4 (Very Good)	4 (Very Good)	3 (Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
35	FAMINA . K . P	UFAXBCM035	4 (Very Good)	5 (Excellent)	4 (Very Good)	3 (Good)	4 (Very Good)	5 (Excellent)	5 (Excellent)
36	KHADHEE/ATHU SANIYYA T	UFAXBCM036	4 (Very Good)	3 (Good)	4 (Very Good)	3 (Good)	5 (Excellent)	3 (Good)	3 (Good)
37	NAMITHA . P	UFAXBCM037	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
38	NANDANA K M	UFAXBCM038	4 (Very Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)	5 (Excellent)
39	NILSHA C.M	UFAXBCM039	4 (Very Good)	3 (Good)	4 (Very Good)	3 (Good)	5 (Excellent)	3 (Good)	3 (Good)
40	NIRANJANA C	UFAXBCM040	3 (Good)	4 (Very Good)	4 (Very Good)	3 (Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
41	NIVYA RAJ K	UFAXBCM041	3 (Good)	5 (Excellent)	4 (Very Good)	4 (Very Good)	5 (Excellent)	5 (Excellent)	5 (Excellent)
42	PAVITHRA . V P	UFAXBCM042	5 (Excellent)	4 (Very Good)	4 (Very Good)	5 (Excellent)	3 (Good)	4 (Very Good)	4 (Very Good)
43	PRAJISHA E C	UFAXBCM043	3 (Good)	5 (Excellent)	5 (Excellent)	2 (Very Fair)	4 (Very Good)	5 (Excellent)	2 (Very Fair)
		UFAXBCM044	4 (Very Good)	2 (Very Fair)	4 (Very Good)	4 (Very Good)	5 (Excellent)	4 (Very Good)	4 (Very Good)

44	SANDRA V	UFAXBCM045	5 (Excellent)	1 (Fair)	5 (Excellent)	4 (Very Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)
45	SIJISHA M	UFAXBCM046	4 (Very Good)	3 (Good)	3 (Good)	3 (Good)	2 (Very Fair)	5 (Excellent)	3 (Good)
46	VIHANYA M	UFAXBCM047	3 (Good)	3 (Good)	5 (Excellent)	4 (Very Good)	3 (Good)	2 (Very Fair)	4 (Very Good)
47	VINAYA N	UFAXBCM048	5 (Excellent)	4 (Very Good)	3 (Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)	3 (Good)
48	VRINDHA K M	UFAXBCM049	3 (Good)	5 (Excellent)	4 (Very Good)	3 (Good)	4 (Very Good)	5 (Excellent)	3 (Good)
49	ABHIJITH M	UFAXBCM050	4 (Very Good)	3 (Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)
50	ADARSH A	UFAXBCM051	5 (Excellent)	3 (Good)	3 (Good)	3 (Good)	3 (Good)	3 (Good)	3 (Good)
51	ATHUL K	UFAXBCM052	5 (Excellent)	4 (Very Good)	4 (Very Good)	3 (Good)	3 (Good)	3 (Good)	4 (Very Good)
52	ATHUL RAJ	UFAXBCM053	4 (Very Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)	5 (Excellent)
53	MUHAMMED HISHAM. P	UFAXBCM054	5 (Excellent)	3 (Good)	3 (Good)	4 (Very Good)	5 (Excellent)	5 (Excellent)	4 (Very Good)
54	MUHAMMED SAFVAN . K. S	UFAXBCM055	3 (Good)	4 (Very Good)	5 (Excellent)	4 (Very Good)	5 (Excellent)	5 (Excellent)	5 (Excellent)
55	MUHAMMED SINAN . P	UFAXBCM056	3 (Good)	5 (Excellent)	3 (Good)	3 (Good)	3 (Good)	3 (Good)	4 (Very Good)
56	RISHAL K. C.	UFAXBCM057	4 (Very Good)	3 (Good)	3 (Good)	3 (Good)	3 (Good)	3 (Good)	5 (Excellent)
57	ROHITH. M	UFAXBCM058	5 (Excellent)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	3 (Good)
58	SOORYA PRASAD. T	UFAXBCM059	3 (Good)	5 (Excellent)	5 (Excellent)	5 (Excellent)	5 (Excellent)	5 (Excellent)	3 (Good)
59	VTNAY A	UFAXBCM060	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
60	VIVEK MV	UFAXBCM061	5 (Excellent)	3 (Good)	1 (Fair)	1 (Fair)	1 (Fair)	1 (Fair)	5 (Excellent)
61	RINSHINA S S	UFAXBCM062	4 (Very Good)	4 (Very Good)	3 (Good)	3 (Good)	3 (Good)	3 (Good)	4 (Very Good)
No. of graded "0"			0	0	0	0	0	0	0
No. of graded "1"			1	1	1	1	1	1	2
No. of graded "2"			1	4	3	4	4	4	1
No. of graded "3"			20	25	16	22	22	22	17
No. of graded "4"			22	15	25	14	14	14	23
No. of graded "5"			17	16	16	20	20	20	18

2020



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DEPARTMENT OF COMMERCE

DIRECT ASSESSMENT METHOD - CO ATTAINMENT (ODD SEM . 2024-2025)

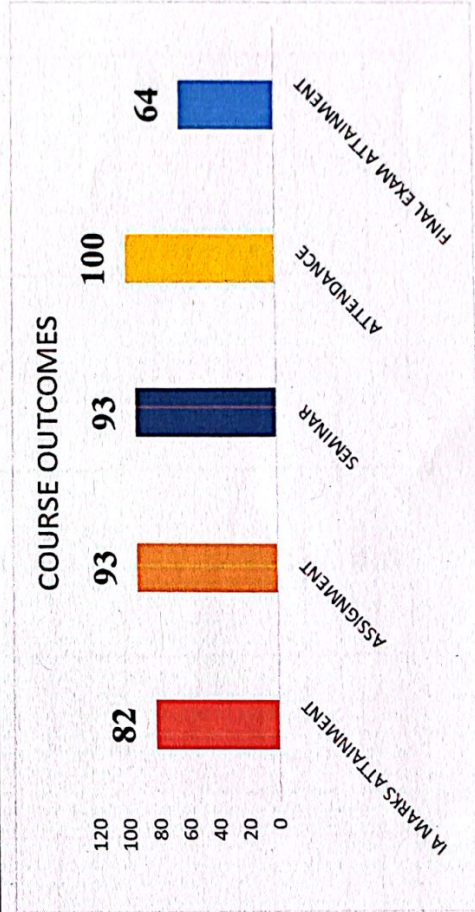
Semester: III

Course: BCM3A11-BASIC NUMERICAL METHODS

Name of the faculty member: SHAHUL HAMEED K

TARGET: 60% ATTAINMENT

COs	CO1 to CO5
IA MARKS ATTAINMENT	82
ASSIGNMENT	93
SEMINAR	93
ATTENDANCE	100
FINAL EXAM ATTAINMENT	64
AVERAGE	87





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DEPARTMENT OF COMMERCE

CO ATTAINMENT - FINAL EXAM MARKS (ODD SEM . 2024-2025)

Sem.: III

Course: BCM3A11-BASIC NUMERICAL METHODS

Sl. No.	Name of the student	REG NO	Max. Marks	COURSE OUTCOMES		CO ATTAINMENT	
				CO 1 TO CO5	40	%age	CO 1 TO CO5
1	AYISHA DILNA CHELADATHIL	UFAXBCM001		28		70	Y
2	FAMINA A P	UFAXBCM002		36		90	Y
3	FATHIMA NAJIYA	UFAXBCM003		32		80	Y
4	FATHIMA SHERIN. C. P	UFAXBCM004		36		90	Y
5	JINSHA JABIN. K	UFAXBCM005		36		90	Y
6	JINSHA K	UFAXBCM006		28		70	Y
7	NADIYA T	UFAXBCM007		36		90	Y
8	NAJIYA NASRIN N T	UFAXBCM008		32		80	Y
9	NASIYA NASRIN . M	UFAXBCM009		32		80	Y
10	NIDHA SALEEM . T T	UFAXBCM010				0	N
11	RASHA	UFAXBCM011		28		70	Y
12	SADIKHA SHAHANAS K	UFAXBCM012		32		80	Y
13	SHIBINA P	UFAXBCM013		32		80	Y
14	SHIBLA T.M	UFAXBCM014		28		70	Y
15	SHIFA NARSHA. K	UFAXBCM015		32		80	Y
16	SHUHAILA . K	UFAXBCM016		32		80	Y
17	SILSHA M K	UFAXBCM017		28		70	Y
18	THABASHEERA.T.M	UFAXBCM018		32		80	Y

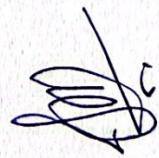
2024

19	ANSIF V	UFAXBCM019	28	70	Y
20	MOHAMMED NIHAL V	UFAXBCM021		0	N
21	MUHAMMED HAFEEZ T	UFAXBCM022		0	N
22	MUHAMMED NIHAJ . T . P	UFAXBCM023	28	70	Y
23	NASIB RAHMAN K	UFAXBCM024		0	N
24	RAMEEZ T P	UFAXBCM025	20	50	Y
25	ADHITHYA . P	UFAXBCM026	24	60	Y
26	ADITHYA C.	UFAXBCM027	16	40	Y
27	AJANYA . K	UFAXBCM028	20	50	Y
28	ANAGHA M	UFAXBCM029	20	50	Y
29	ANASWARA ANIL.P K	UFAXBCM030	20	50	Y
30	ANJANA M	UFAXBCM031	24	60	Y
31	ANJUSHA P	UFAXBCM032	0	0	N
32	APARNA P	UFAXBCM033	16	40	Y
33	ASWANI KRISHNA . M	UFAXBCM034	36	90	Y
34	BABITHA K B	UFAXBCM035		0	N
35	FAMINA . K . P	UFAXBCM036		0	N
36	KHADHEEJATHU SANIYYA T	UFAXBCM037	32	80	Y
37	NAMITHA . P	UFAXBCM038	16	40	Y
38	NANDANA K M	UFAXBCM039		0	N
39	NILSHA C.M	UFAXBCM040	20	50	Y
40	NIRANJANA C	UFAXBCM041	24	60	Y
41	NIVYA RAJ K	UFAXBCM042	0	0	N
42	PAVITHRA . V P	UFAXBCM043	24	60	Y
43	PRAJISHA E C	UFAXBCM044	0	0	N
44	SANDRA V	UFAXBCM045	16	40	Y
45	SIJISHA M	UFAXBCM046		0	N
46	VIHANYA M	UFAXBCM047	0	0	N
47	VINAYA N	UFAXBCM048	20	50	Y
48	VRINDHA K M	UFAXBCM049	16	40	Y

49	ABHIJITH M	UFAXBCM050	16	40	Y
50	ADARSH A	UFAXBCM051		0	N
51	ATHUL K	UFAXBCM052	20	50	Y
52	ATHUL RAJ	UFAXBCM053		0	N
53	MUHAMMED HISHAM. P	UFAXBCM054	0	0	N
54	MUHAMMED SAFVAN. K. S	UFAXBCM055		0	N
55	MUHAMMED SINAN. P	UFAXBCM056	16	40	Y
56	RISHAL K. C.	UFAXBCM057		0	N
57	ROHITH. M	UFAXBCM058	0	0	N
58	SOORYA PRASAD. T	UFAXBCM059		0	N
59	VINAY A	UFAXBCM060		0	N
60	VIVEK MV	UFAXBCM061		0	N
61	RINSHINA S S	UFAXBCM062		0	N
				39	
				63.93	

FOR BCM3A11	CO1 to CO5
	63.93

TARGET: 75% OF STUDENTS WILL SCORE 35% OF MARKS






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DEPARTMENT OF COMMERCE

CO ATTAINMENT - ASSIGNMENT(ODD SEM. 2024-2025)

Sem.: III
Name of the faculty member: SHAHUL HAMEED K
Course: BCM3A11-BASIC NUMERICAL METHODS

Sl. No.	Name of the student	REG NO	Max. Marks	ASSIGNMENT	SEMINAR	ATTENDANCE	COURSE OUTCOMES				ATTENDANCE		
				CO1 to CO3	CO4 to CO5		CO1 - 3		CO4 - 5		%age	Y/N	
1	AYISHA DILNA CHELADATHIL	UFAXBCM001	4	4	4	4	4	100	Y	100	Y	100	Y
2	FAMINA A P	UFAXBCM002	4	4	4	4	4	100	Y	100	Y	100	Y
3	FATHIMA NAJIYA	UFAXBCM003	4	4	4	4	4	100	Y	100	Y	100	Y
4	FATHIMA SHERIN. C. P	UFAXBCM004	4	4	4	4	4	100	Y	100	Y	100	Y
5	JINSHA JABIN. K	UFAXBCM005	4	4	4	4	4	100	Y	100	Y	100	Y
6	JINSHA K	UFAXBCM006	4	4	4	4	4	100	Y	100	Y	100	Y
7	NADIYA T	UFAXBCM007	4	4	4	4	4	100	Y	100	Y	100	Y
8	NAJIYA NASRIN N T	UFAXBCM008	4	4	4	4	4	100	Y	100	Y	100	Y
9	NASIYA NASRIN. M	UFAXBCM009	4	4	3.5	4	4	100	Y	87.5	Y	100	Y
10	NIDHA SALEEM. T T	UFAXBCM010	2	2	1	1	1	50	Y	25	N	25	Y
11	RASHA	UFAXBCM011	4	4	4	4	4	100	Y	100	Y	100	Y
12	SADIK A SHAHANAS K	UFAXBCM012	4	4	3.5	4	4	100	Y	87.5	Y	100	Y
13	SHIBINA. P	UFAXBCM013	4	4	4	4	4	100	Y	100	Y	100	Y
14	SHIBLA T.M	UFAXBCM014	4	4	4	4	4	100	Y	100	Y	100	Y
15	SHIFA NARSHA. K	UFAXBCM015	4	4	4	4	4	100	Y	100	Y	100	Y
16	SHUHAILA. K	UFAXBCM016	4	4	4	4	4	100	Y	100	Y	100	Y

17	SILSHA M K	UFAXBCM017	4	4	4	4	100	Y	100	Y	100	Y	100	Y
18	THABSHEERA.T.M	UFAXBCM018	4	4	4	4	100	Y	100	Y	100	Y	100	Y
19	ANSIF V	UFAXBCM019	4	4	4	4	100	Y	100	Y	100	Y	100	Y
20	MOHAMMED NIHAL V	UFAXBCM021	0	0	2	2	0	N	0	N	0	N	50	Y
21	MUHAMMED HAFEEZ T	UFAXBCM022	2	2	2	2	50	Y	50	Y	50	Y	50	Y
22	MUHAMMED NIHAJ . T . P	UFAXBCM023	4	4	4	4	100	Y	100	Y	100	Y	50	Y
23	NASIB RAHMAN K	UFAXBCM024	3	4	4	4	75	Y	100	Y	100	Y	50	Y
24	RAMEEZ T P	UFAXBCM025	4	4	3.5	2	100	Y	100	Y	87.5	Y	50	Y
25	ADHITHYA . P	UFAXBCM026	4	4	4	4	100	Y	100	Y	100	Y	100	Y
26	ADITHYA C.	UFAXBCM027	4	4	4	4	100	Y	100	Y	100	Y	100	Y
27	AJANYA . K	UFAXBCM028	4	4	4	4	100	Y	100	Y	100	Y	100	Y
28	ANAGHA M	UFAXBCM029	4	4	4	4	100	Y	100	Y	100	Y	100	Y
29	ANASWARA ANIL.P K	UFAXBCM030	3	3	4	4	75	Y	75	Y	75	Y	100	Y
30	ANJANA . M	UFAXBCM031	4	4	4	4	100	Y	100	Y	100	Y	100	Y
31	ANJUSHA P	UFAXBCM032	4	3	2	2	100	Y	75	Y	75	Y	50	Y
32	APARNA P	UFAXBCM033	4	3.5	4	4	100	Y	87.5	Y	87.5	Y	100	Y
33	ASWANI KRISHNA . M	UFAXBCM034	4	3.5	4	4	100	Y	87.5	Y	87.5	Y	100	Y
34	BABITHA K B	UFAXBCM035	4	3	2	2	100	Y	75	Y	75	Y	50	Y
35	FAMINA . K . P	UFAXBCM036	4	3.5	2	2	100	Y	87.5	Y	87.5	Y	50	Y
36	KHADHEEJATHU SANYYA T	UFAXBCM037	4	4	4	4	100	Y	100	Y	100	Y	100	Y
37	NAMITHA . P	UFAXBCM038	4	3.5	4	4	100	Y	87.5	Y	87.5	Y	100	Y
38	NANDANA K M	UFAXBCM039	4	1	2	2	100	Y	25	N	25	N	50	Y
39	NILSHA C.M	UFAXBCM040	4	3.5	2	2	100	Y	87.5	Y	87.5	Y	50	Y
40	NIRANJANA C	UFAXBCM041	4	4	4	4	100	Y	100	Y	100	Y	100	Y
41	NIVYA RAJ K	UFAXBCM042	4	3.5	2	2	100	Y	87.5	Y	87.5	Y	50	Y
42	PAVITHRA . V P	UFAXBCM043	4	4	4	4	100	Y	100	Y	100	Y	100	Y
43	PRAJISHA E C	UFAXBCM044	4	3	2	2	100	Y	75	Y	75	Y	50	Y
44	SANDRA V	UFAXBCM045	4	3.5	4	4	100	Y	87.5	Y	87.5	Y	100	Y
45	SUJISHA.M	UFAXBCM046	1	1	1	1	25	N	25	N	25	N	25	Y

46	VIHANYA M	UFAXBCM047	4	3	2	100	Y	75	Y	50	Y
47	VINAYA N	UFAXBCM048	4	4	4	100	Y	100	Y	100	Y
48	VRINDHA K M	UFAXBCM049	4	4	2	100	Y	100	Y	50	Y
49	ABHIJITH M	UFAXBCM050	4	3.5	2	100	Y	87.5	Y	50	Y
50	ADARSH A	UFAXBCM051	4	4	4	100	Y	100	Y	100	Y
51	ATHUL K	UFAXBCM052	4	4	4	100	Y	100	Y	100	Y
52	ATHUL RAJ	UFAXBCM053	4	4	4	100	Y	100	Y	100	Y
53	MUHAMMED HISHAM. P	UFAXBCM054	0	3	4	0	N	75	Y	100	Y
54	MUHAMMED SAFVAN. K. S	UFAXBCM055	3	4	4	75	Y	100	Y	100	Y
55	MUHAMMED SINAN. P	UFAXBCM056	2.5	4	2	62.5	Y	100	Y	50	Y
56	RISHAL K. C.	UFAXBCM057	4	4	4	100	Y	100	Y	100	Y
57	ROHITH. M	UFAXBCM058	4	2	4	100	Y	50	Y	100	Y
58	SOORYA PRASAD. T	UFAXBCM059	4	3	4	100	Y	75	Y	100	Y
59	VINAY A	UFAXBCM060	2	4	1	50	Y	100	Y	25	Y
60	VIVEK MV	UFAXBCM061	0	3.5	4	0	N	87.5	Y	100	Y
61	RINSHINA SS	UFAXBCM062	4	4	2	100	Y	100	Y	50	Y
						57		57		61	
						93.44		93.44		100.00	

FOR BCM3A11	CO1 TO 3	CO4 TO 5	ATTENDANCE
	93.44	93.44	100.00

TARGET: 1) 90% OF STUDENTS WILL SCORE 35% OF MARKS IN ASSIGNMENT

APD

