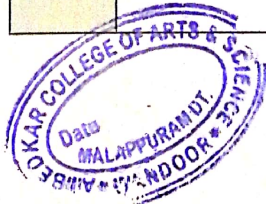




COURSE PLAN										
Course code and title	MTS5 B09 INTRODUCTION TO GEOMETRY AND THEORY OF EQUATION									
Class	BSc. Mathematics	Semester	V							
Regulation	2019	Academic year	2024-25							
Course prerequisites	Basic Algebra, Pre-Geometry Concepts, Mathematical Reasoning and Logical Thinking									
Course objectives	• To develop a foundational understanding of Euclidean geometry									
	• To analyze and solve algebraic equations of various types									
	• To connect geometric and algebraic thinking									
COURSE OUTCOMES										
At the end of the course the student would be able to...										
CO1	Define and describe conic sections									
CO2	Apply the properties of conics to solve problems									
CO3	Analyze affine transformations and their properties									
CO4	Synthesize knowledge from polynomial theory									
CO5	Evaluate the roots of polynomial equations using various methods									
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 & Social Responsibility			
PO2	Communication & Leadership					PO7	Research, Innovation & Entrepreneurship			





PO3	Professional Skills	PO8	Lifelong Learning			
PO4	Digital Intelligence	PO9	Global Perspective			
PO5	Scientific awareness & Critical Thinking	PO10	Democratic Co-existence			
PROGRAM SPECIFIC OUTCOMES						
PSO1	Theoretical and Applied Mathematics Competency					
PSO2	Advanced Analytical and Computational Techniques					
PSO3	Mathematical Modeling and Problem-Solving					
MAPPING OF COURSE OUTCOMES TO PROGRAM EDUCATIONAL OUTCOMES						
PROGRAM EDUCATIONAL OUTCOMES		COURSE OUTCOMES				
		CO1	CO2	CO3	CO4	CO5
PEO1		✓		✓		
PEO2		✓				
PEO3				✓	✓	
TEXT BOOKS:						
1. Geometry(2/e): David A Brannan, Mathew F Espen, Jeremy J Gray Cambridge University Press(2012) ISBN: 978-1-107-64783-1						
2. Theory of Equations : J V Uspensky McGraw Hill Book Company, Inc. (1948) ISBN:07-066735-7						
REFERENCES:						
1. George A Jennings: Modern Geometry with Applications Universitext, Springer (1994) ISBN:0-387-94222-X						
2. Walter Meyer: Geometry and its Application(2/e) Elsever, Academic Press (2006)ISBN:0-12-369427-0						
3. Judith N Cederberg : A Course in Modern Geometries(2/e) UTM, Springer (2001) ISBN: 978-1-4419-3193-1						
4. Patric J Ryan: Euclidean and Non Euclidean Geometry-An Analytic Approach Cambridge University Press, International Student Edition (2009) ISBN:978-0-521-12707-3						
5. David C Kay: College Geometry: A Unified Approach CRC Press Tayloe and Francic Group(2011) ISBN: 978-1-4398-1912-8 (Ebook-PDF)						
6. James R Smart: Modern Geometries(5/e) Brooks/Cole Publishing Co.,(1998) ISBN:0-534-35188-3						





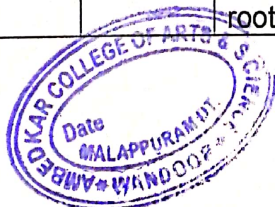
7. Michele Audin: Geometry Universitext, Springer(2003)ISBN:3-540-43498-4	
e-learning resources	https://www.coursera.org/
Mode of Evaluation	Internal Examination (20%) End Semester Examination (80%)
Faculty	Sharshad Ameera , Assistant Professor/ Department of Mathematics
e-mail id	sharshadameera@gmail.com





COURSE PLAN BCM4C04 QUANTITATIVE TECHNIQUES FOR BUSINESS

No of lecture hours	Planned Date	Topics to be covered	Reference/ Teaching aids and methods	Actual date	Week ly review
MODULE I					
1	03/07/24	Conic Sections	T1/WB	3/7/24	<i>[Signature]</i>
2	04/07/24	Focus-Directrix Definition of the Non-Degenerate Conics	T1/WB	4/7/24	<i>[Signature]</i>
3	05/07/24	Focal Distance Properties of Ellipse and Hyperbola	T1/WB	10/7/24	<i>[Signature]</i>
4	10/07/24	Properties of Conics	T1/WB	11/7/24	<i>[Signature]</i>
5	11/07/24	Recognizing Conics	T1/PPT	12/7/24	<i>[Signature]</i>
6	12/07/24	Geometry and Transformations	T1/PPT	18/7/24	<i>[Signature]</i>
7	17/07/24	Affine Transformations and Parallel Projections	T1/WB	19/7/24	<i>[Signature]</i>
8	18/07/24	Properties of Affine Transformations	T1/WB	24/7/24	<i>[Signature]</i>
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal
			<i>[Signature]</i>		
MODULE II					
9	24/07/24	Division of polynomials, quotient and remainder, method of detached coefficients	T2/WB	25/7/24	<i>[Signature]</i>
10	25/07/24	The remainder theorem	T2/WB	26/7/24	<i>[Signature]</i>
11	26/07/24	Synthetic Division	T2/WB	31/7/24	<i>[Signature]</i>
15	26/07/24	Taylor formula, expansion of a polynomial in powers of $x - c$	T2/WB	2/8/24	<i>[Signature]</i>
16	31/07/24	Algebraic equations, roots; maximum number of roots	R9/WB	5/8/24	<i>[Signature]</i>
17	01/08/24	Identity theorem	T2/WB	8/8/24	<i>[Signature]</i>
18	02/08/24	The Fundamental theorem of Algebra	R9/PPT	12/8/24	<i>[Signature]</i>
19	07/08/24	Imaginary roots of equations with real coefficients	T2/WB	13/8/24	<i>[Signature]</i>
	08/08/24	Relations between roots and coefficients	T2/WB	14/8/24	<i>[Signature]</i>
	09/08/24	Limits of roots	T2/WB	15/8/24	<i>[Signature]</i>
20	14/08/24	Method to find upper limit of positive roots	T2/WB	20/8/24	<i>[Signature]</i>





	16/08/24	Limit for moduli of roots		T2/WB	22/8/24	<i>[Signature]</i>
	21/08/24	Integral roots		T2/WB	27/8/24	<i>[Signature]</i>
	22/08/24	Rational roots		T2/WB	28/8/24	<i>[Signature]</i>
Planned hours	Actual hours	Date	Sign of Faculty	Review by HoD	Review by Principal	
			<i>[Signature]</i>			
MODULE - III						
21	23/08/24	What is the solution of an equation, algebraic solution or solution by radical		T2/WB	2/9/24	<i>[Signature]</i>
22	29/08/24	Carden's formula		T2/WB	4/9/24	<i>[Signature]</i>
23	30/08/24	Discussion of solution		T2/WB	6/9/24	<i>[Signature]</i>
24	04/09/24	Irreducible case		T2/WB	9/9/24	<i>[Signature]</i>
25	05/09/24	Solutions of biquadratic equations, Ferrari method		Raf/WB	10/9/24	<i>[Signature]</i>
26	06/09/24	The sign of a polynomial for small and large values of variables- locating roots of polynomial between two numbers having values of opposite sign-		T2/WB	12/9/24	<i>[Signature]</i>
27	11/09/24	Corollaries- roots of odd and even degree polynomial, number of roots in an interval counted according to their multiplicity		T2/WB	17/9/24	<i>[Signature]</i>
29	11/09/24	Examples		T2/PPT	20/9/24	<i>[Signature]</i>
30	12/09/24	An important identity and lemma		T2/WB	24/9/24	<i>[Signature]</i>
31	13/09/24	Rolle's theorem		T2/WB	26/9/24	<i>[Signature]</i>
32	18/09/24	Descarte's rule of signs		T2/PPT	1/10/24	<i>[Signature]</i>

FACULTY

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Course outcome –Program outcome Mapping Table

Course outcome –Program outcome Mapping Table												
BCM4C04 QUANTITATIVE TECHNIQUES FOR BUSINESS		Cognitive level	Program outcomes									
			1- Moderate Correlation					2- High correlation				
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
DIRECT METHOD												
CO1		Rememb er	3		3	2	1		1	1		
CO2		Apply	3		2	1	1		2		1	
CO3		Apply & Analyze	3		2		2		1			
CO4		Create	3		1		2		2		1	
CO5		Innovate	3		1		1		1			
INDIRECT METHOD												
Class Room contests		Analyze & Create	1					1	2			2

Course Faculty

IQAC Member

HoD





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).

Rate your prior knowledge about the topics mentioned below

Course Outcomes	Description	Rate your prior knowledge about the topics			
		Excellent (4)	Good (3)	Moderate (2)	Fair (1)
CO1	Define and describe conic sections		✓		
CO2	Apply the properties of conics to solve problems	✓			
CO3	Analyze affine transformations and their properties			✓	
CO4	Synthesize knowledge from polynomial theory				✓
CO5	Evaluate the roots of polynomial equations using various methods		✓		

Name of the student:

Signature of the student

Adla . P





Syllabus

- Text (1) Geometry(2/e): David A Brannan, Mathew F Espen, Jeremy J Gray Cambridge University Press(2012) ISBN: 978-1-107-64783-1
- Text (2) Theory of Equations : J V Uspensky McGraw Hill Book Company, Inc. (1948) ISBN:07-066735-7

Module- I	Text (i)	(20 hrs)
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Conics

1.1.1: Conic Sections

1.1.3: Focus-Directrix Definition of the Non-Degenerate Conics- *definition, parabola in standard form, ellipse in standard form, hyperbola in standard form*, Rectangular Hyperbola, Polar Equation of a Conic

1.1.4: Focal Distance Properties of Ellipse and Hyperbola-Sum of Focal Distances of Ellipse, Difference of Focal Distances of Hyperbola,

1.2: Properties of Conics- Tangents, *equation of tangents to ellipse, hyperbola, and parabola, polar of a point w.r.t. unit circle, normal*, Reflections, The Reflection Law, Reflection Property of the Ellipse, Reflection Property of the Hyperbola, Reflection Property of the Parabola, Conics as envelopes of tangent families

1.3: Recognizing Conics- *equation of conic in general form, identifying a conic*

Affine Geometry

2.1: Geometry and Transformations - What is Euclidean Geometry? *Isometry, Euclidean properties, Euclidean transformation, Euclidean-Congruence*

2.2: Affine Transformations and Parallel Projections- Affine Transformations, *Basic Properties of Parallel Projections*, Affine Geometry, *Midpoint Theorem, Conjugate Diameters Theorem*, Affine Transformations and Parallel Projections, *affine transformations as composite of two parallel projections*

2.3: Properties of Affine Transformations-Images of Sets Under Affine Transformations, The Fundamental Theorem of Affine Geometry (*without proof*), Proofs of the Basic Properties of Affine Transformations.





Module- II

Text (2)

(14 hrs)

Theory of Equations

Chapter II

- II.3: Division of polynomials, quotient and remainder, method of detached coefficients
- II.4: The remainder theorem
- II.5: Synthetic Division
- II.7: Taylor formula, expansion of a polynomial in powers of $x - c$

Chapter III

- III.1: Algebraic equations, roots, maximum number of roots
- III.2: Identity theorem
- III. 3: The Fundamental theorem of Algebra (statement only), factorisation to linear factors, multiplicity of roots
- III. 4: Imaginary roots of equations with real coefficients
- III. 5: Relations between roots and coefficients

Chapter IV

- IV.1: Limits of roots
- IV.2: Method to find upper limit of positive roots
- IV.3: Limit for moduli of roots [only the method to find out upper limit from the auxiliary equation is required; *derivation omitted*]
- IV.4: Integral roots
- IV.5: Rational roots

Module- III

Text (2)

(14 hrs)

Chapter V

- V.1: What is the solution of an equation, algebraic solution or solution by radical
- V.2: Carden's formula
- V.3: Discussion of solution
- V.4: Irreducible case
- V.6: Solutions of biquadratic equations, Ferrari method [*example2 omitted*]

Chapter VI

- VI.1: Object of the Chapter
- VI.2: The sign of a polynomial for small and large values of variables- locating roots of polynomial between two numbers having values of opposite sign- geometric illustration only- [*rigorous reasoning in the starred section omitted*]



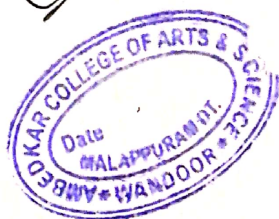


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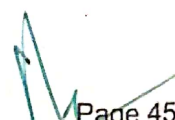
- VI.4: Corollaries- roots of odd and even degree polynomial, number of roots in an interval counted according to their multiplicity
- VI.5: Examples
- VI.6: An important identity and lemma *[derivation not needed]*
- VI.7: Rolle's theorem *[proof omitted]*, use in separating roots
- VI.10: Descarte's rule of signs-only statement and illustrations are required

References:	
1	George A Jennings: <i>Modern Geometry with Applications</i> Universitext, Springer (1994) ISBN:0-387-94222-X
2	Walter Meyer: <i>Geometry and its Application</i> (2/e)Elsever, Academic Press(2006) ISBN:0-12-369427-0
3	Judith N Cederberg : <i>A Course in Modern Geometries</i> (2/e) UTM, Springer (2001) ISBN: 978-1-4419-3193-1
4	Patric J Ryan: <i>Euclidean and Non Euclidean Geometry-An Analytic Approach</i> Cambridge University Press, International Student Edition (2009) ISBN:978-0-521-12707-3
5	David C Kay: <i>College Geometry: A Unified Approach</i> CRC Press Tayloe and Francic Group(2011) ISBN: 978-1-4398-1912-8 (Ebook-PDF)
6	James R Smart: <i>Modern Geometries</i> (5/e) Brooks/Cole Publishing Co.,(1998) ISBN:0-534-35188-3
7	Michele Audin: <i>Geometry</i> Universitext, Springer(2003)ISBN:3-540-43498-4
8	Dickson L.E: <i>Elementary Theory of Equations</i> John Wiley and Sons, Inc. NY(1914)
9	Turnbull H.W: <i>Theory of Equations</i> (4/e) Oliver and Boyd Ltd Edinburg (1947)
10	Todhunter I: <i>An Elementary Treatise on the Theory of Equations</i> (3/e) Macmillan and Co. London(1875)
11	William Snow Burnside and Arthur William Panton: <i>The Theory of Equations with an Introduction to Binary Algebraic Forms</i> Dublin University Press Series (1881)

HOD 



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Course outcome –Program Specific outcome Mapping Table

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

Course Faculty

IQAC Member

HoD





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DIRECT ASSESSMENT OF COURSE OUTCOMES

INTERNAL ASSESSMENT TEST 15 MARKS

()

Objective	To Identify What Students Have Learned and also to identify students strength and weakness		
To file	Answer scripts	Frequency	2 times in a semester on dates specified by University
Format			
Evaluation	Based on answer given in the scripts		

ASSIGNMENT: 3 MARKS

Objective	To enhance students understanding of a complex structural problems		
Product	Hand written assignment sheets		
Frequency	Monthly or after completing improvement test		
Format	Questions from both question papers		
Evaluation	Based on rubrics		
Criteria	No. of assignments: 1 Submit on or before the date of submission		

END SEMESTER EXAMINATION 75 MARKS

Objective	To assess the each student's knowledge of the course			
Product	Result analysis			
Frequency	Semester			
Format	Part -A 12 x 2 = 20 marks, Part -B 5 x 7 = 30 marks, Total marks = 75, Duration : 2 hours			
Evaluation	Based on answer given in the scripts			
Marks out of 100	30-50	50- 70	71-100	0-50
Levels of attainment	1	2	3	Counseling / Coaching classes.





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DEPARTMENT OF MATHEMATICS

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

Semester: V

Course: MTS5B09 - INTRODUCTION TO GEOMETRY AND THEORY OF EQUATIONS

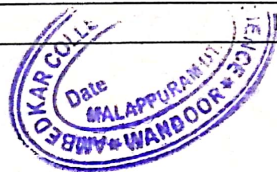
Name of the faculty member: SHARSHAD AMEERA

Sl. No.	NAME OF THE STUDENT	REG NO	Are you able to Understand Linear Programming Basics	Are you able to Formulate Linear Programming Problems	Are you able to Implement the Simplex Method	Are you able to Apply Duality Theory	Are you able to Evaluate and Apply Transportation & Assignment Problems
COURSE OUTCOMES			CO1	CO2	CO3	CO4	CO5
1	ADLA P	UFAWSMT001	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (Excellent)
2	DILSHA A P	UFAWSMT003	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (Excellent)	4 (Very Good)
3	HIBA SHERIN M K	UFAWSMT005	4 (Very Good)	4 (Very Good)	3 (Good)	1 (Fair)	3 (Good)
4	HUSNA SHERIN K	UFAWSMT006	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)
5	MUFEEDA	UFAWSMT007	4 (Very Good)	3 (Good)	4 (Very Good)	5 (EXCELLENT)	3 (Good)
6	RINSHA T P	UFAWSMT008	3 (Good)	3 (Good)	3 (Good)	3 (Good)	3 (Good)
7	SAHANA MUMTHAZ	UFAWSMT010	3 (Good)	4 (Very Good)	3 (Good)	5 (EXCELLENT)	5 (EXCELLENT)
8	SANA M T	UFAWSMT011	5 (EXCELLENT)	3 (Good)	4 (Very Good)	3 (Good)	5 (EXCELLENT)
9	SANA V K	UFAWSMT012	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
10	SANEEBA K	UFAWSMT013	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
11	SHAHMA CH	UFAWSMT014					
12	SHIFNA SHARIN	UFAWSMT016	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
13	FAYIZ C	UFAWSMT017	4 (Very Good)	3 (Good)	5 (EXCELLENT)	3 (Good)	3 (Good)

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14	MOHAMMED SWALIH C	UFAWSMT018	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)
15	MUHAMMED SINAN S V	UFAWSMT019	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)
16	SHAHID IRFAN T P	UFAWSMT020	5 (EXCELLENT)	4 (Very Good)	3 (Good)	3 (Good)	1 (Fair)
17	ARYA V R	UFAWSMT021	4 (Very Good)	3 (Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
18	ASNA RUBA K	UFAWSMT022	3 (Good)	3 (Good)	4 (Very Good)	3 (Good)	3 (Good)
19	FATHIMA RANNA T	UFAWSMT024	3 (Good)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)	4 (Very Good)
20	HANNA MOL	UFAWSMT025	4 (Very Good)	4 (Very Good)	3 (Good)	3 (Good)	4 (Very Good)
21	HARSHA MOHANDAS C M	UFAWSMT026	4 (Very Good)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
22	MANYA P	UFAWSMT028	4 (Very Good)	2 (Very Fair)	4 (Very Good)	4 (Very Good)	4 (Very Good)
23	MINNA P	UFAWSMT029	4 (Very Good)	4 (Very Good)	3 (Good)	3 (Good)	5 (EXCELLENT)
24	RINSHA V	UFAWSMT030	3 (Good)	4 (Very Good)	4 (Very Good)	3 (Good)	5 (EXCELLENT)
25	RISHIKA P K	UFAWSMT031	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	3 (Good)
26	SARANYA K N	UFAWSMT032	3 (Good)	3 (Good)	4 (Very Good)	3 (Good)	5 (EXCELLENT)
27	SHIFNA SHERI K	UFAWSMT033	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)	4 (Very Good)
28	ABHINAV P	UFAWSMT034	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)	3 (Good)	3 (Good)
29	AKSHAY RAJ K	UFAWSMT035	4 (Very Good)	4 (Very Good)	3 (Good)	4 (Very Good)	4 (Very Good)
30	MAQBOOL RAASI P M	UFAWSMT037	5 (EXCELLENT)	5 (EXCELLENT)	5 (EXCELLENT)	4 (Very Good)	5 (EXCELLENT)
31	SIBIL V	UFAWSMT038	4 (Very Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)	5 (EXCELLENT)
32	VISHNU C	UFAWSMT039	5 (EXCELLENT)	4 (Very Good)	3 (Good)	3 (Good)	1 (Fair)
33	MASHBOOBA S V	UFAWSMT040	4 (Very Good)	3 (Good)	4 (Very Good)	4 (Very Good)	4 (Very Good)
34	SAFA SHERIN P T	UFAWSMT041	3 (Good)	3 (Good)	4 (Very Good)	3 (Good)	3 (Good)
No. of graded "0"			0	0	0	0	0
No. of graded "1"			0	0	0	1	2
No. of graded "2"			0	1	0	0	0
No. of graded "3"			7	9	8	12	8
No. of graded "4"			17	18	17	12	12
No. of graded "5"			9	5	8	8	11



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DEPARTMENT OF MATHEMATICS

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

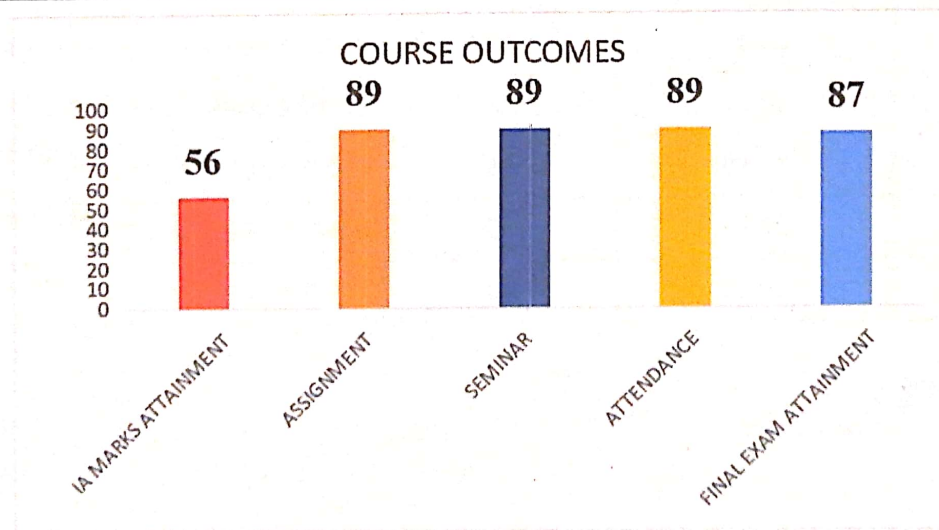
Semester: V

309 - INTRODUCTION TO GEOMETRY AND THEORY OF

Name of the faculty member: SHARSHAD AMEERA

TARGET: 60% ATTAINMENT

COs	CO1 to CO5
IA MARKS ATTAINMENT	56
ASSIGNMENT	89
SEMINAR	89
ATTENDANCE	89
FINAL EXAM ATTAINMENT	87
AVERAGE	82



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DEPARTMENT OF MATHEMATICS
CO-PO-PSO MAPPING (ODD SEM . 2024-2025)

Semester: V

Course: MTS5B09 - INTRODUCTION TO GEOMETRY AND THEORY OF EQUATIONS

Name of the faculty member: SHARSHAD AMEERA

(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	Indirect Assessment	Overall Attainment	Target (%)	Attainment
			(a)	(b)	0.8 (a) + 0.2(b)		
CO1	PO1, PO3, PO4 & PO9	PSO1, PSO2 & PSO3	82	70.53	80	75	YES
CO2	PO1, PO3, PO5 & PO7	PSO1, PSO2 & PSO3	82	66.32	79		
CO3	PO1, PO2, PO3, PO5 & PO9	PSO1, PSO2 & PSO3	82	69.47	80		
CO4	PO1, PO3, PO4, PO5 & PO8	PSO1, PSO2 & PSO3	82	65.79	79		
CO5	PO1, PO4, PO5, PO7 & PO8	PSO1, PSO2 & PSO3	82	67.89	79		

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HOD

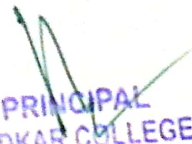
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Attainment Levels of COs

Course Name: ENG5B09- Language and Linguistics				
Assessment Methods		Target-Attainment Levels		Attainment
Internal Assessment	Level 1	50% of students scoring more than 35% marks in internal assessment tools		LEVEL 03
	Level 2	60% of students scoring more than 35% marks in internal assessment tools		
	Level 3	70% of students scoring more than 35% marks in internal assessment tools		
Assessment Methods		Target-Attainment Levels		Attainment
University Assessment	Level 1	50% of students scoring more than 35% marks in UE assessment tools		LEVEL 03
	Level 2	60% of students scoring more than 35% marks in UE assessment tools		
	Level 3	70% of students scoring more than 35% marks in UE assessment tools		




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DEPARTMENT OF MATHEMATICS

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

Sem.: V

MTS5B09 - INTRODUCTION TO GEOMETRY AND THEORY OF EQL

Name of the faculty member:

SHARSHAD AMEERA

Sl. No.	Name of the student	REG NO	ASSIGNMENT	SEMINAR	ATTENDANCE	COURSE OUTCOMES				ATTENDANCE	
			CO1 to CO5	CO4 to CO5		CO1 - 5		CO4 - 5		%age	Y/N
			Max. Marks			%age	Y/N	%age	Y/N		
1	ADLA P	UFAWSMT001	3	3	2	100	Y	100	Y	66.6667	Y
2	DILSHA A P	UFAWSMT003	3	3	3	100	Y	100	Y	100	Y
3	HIBA SHERIN M K	UFAWSMT005	3	3	3	100	Y	100	Y	100	Y
4	HUSNA SHERIN K	UFAWSMT006	3	3	3	100	Y	100	Y	100	Y
5	MUFEEDA	UFAWSMT007	3	3	3	100	Y	100	Y	100	Y
6	RINSHA T P	UFAWSMT008	3	3	3	100	Y	100	Y	100	Y
7	SAHANA MUMTHAZ	UFAWSMT010	3	3	3	100	Y	100	Y	100	Y
8	SANA M T	UFAWSMT011	3	3	3	100	Y	100	Y	100	Y
9	SANA V K	UFAWSMT012	3	3	3	100	Y	100	Y	100	Y
10	SANEEBA K	UFAWSMT013	3	3	3	100	Y	100	Y	100	Y
11	SHAHMA C H	UFAWSMT014	3	3	3	100	Y	100	Y	100	Y
12	SHIFNA SHARIN	UFAWSMT016	3	3	3	100	Y	100	Y	100	Y
13	FAYIZ C	UFAWSMT017	3	3	2	100	Y	100	Y	66.6667	Y
14	MOHAMMED SWALIH C	UFAWSMT018	3	3	3	100	Y	100	Y	100	Y
15	MUHAMMED SINAN S V	UFAWSMT019	3	3	3	100	Y	100	Y	100	Y
16	SHAHID IRFAN T P	UFAWSMT020	3	3	2	100	Y	100	Y	66.6667	Y



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17	ARYA V R	UFAWSMT021	3	3	3	100	Y	100	Y	100	Y
18	ASNA RUBA K	UFAWSMT022	3	3	2	100	Y	100	Y	66.6667	Y
19	FATHIMA RANNA T	UFAWSMT024	3	3	3	100	Y	100	Y	100	Y
20	HANNA MOL	UFAWSMT025	3	3	3	100	Y	100	Y	100	Y
21	HARSHA MOHANDAS C M	UFAWSMT026	3	3	3	100	Y	100	Y	100	Y
22	MANYA P	UFAWSMT028	3	3	3	100	Y	100	Y	100	Y
23	MINNA P	UFAWSMT029	3	3	3	100	Y	100	Y	100	Y
24	RINSHA V	UFAWSMT030	3	3	3	100	Y	100	Y	100	Y
25	RISHIKA P K	UFAWSMT031	3	3	3	100	Y	100	Y	100	Y
26	SARANYA K N	UFAWSMT032	3	3	3	100	Y	100	Y	100	Y
27	SHIFNA SHERI K	UFAWSMT033	3	3	3	100	Y	100	Y	100	Y
28	ABHINAV P	UFAWSMT034	3	3	3	100	Y	100	Y	100	Y
29	AKSHAY RAJ K	UFAWSMT035	3	3	3	100	Y	100	Y	100	Y
30	MAQBOOL RAASI P M	UFAWSMT037	3	3	3	100	Y	100	Y	100	Y
31	SIBIL V	UFAWSMT038	3	3	3	100	Y	100	Y	100	Y
32	VISHNU C	UFAWSMT039	3	3	1	100	Y	100	Y	33.3333	Y
33	MASHBOOBA S V	UFAWSMT040	3	3	3	100	Y	100	Y	100	Y
34	SAFA SHERIN P T	UFAWSMT041	3	3	3	100	Y	100	Y	100	Y
						34		34		34	
						89.47		89.47		89.47	

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

FOR LAL (MTS5B09)	CO1 TO 3	CO4 TO 5	ATTENDAN
	89.47	89.47	89.47



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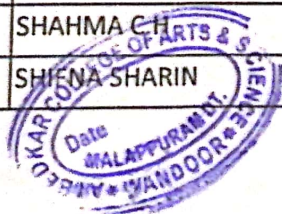
CO ATTAINMENT - IA TEST MARKS (ODD SEM. 2024-2025)

Sem.: V

9 - INTRODUCTION TO GEOMETRY AND THEORY

Name of the faculty member: SHARSHAD AMEERA

Sl. No.	Name of the student	REG NO	IA TEST	COURSE OUTCOMES	
			Q1 TO Q14	IA TEST	
			CO1 TO CO5	CO1 TO CO5	
		Max. Marks	30	%age	Y/N
1	ADLA P	UFAWSMT001	25	83	Y
2	DILSHA A P	UFAWSMT003	5	17	N
3	HIBA SHERIN M K	UFAWSMT005	5	17	N
4	HUSNA SHERIN K	UFAWSMT006	20	67	Y
5	MUFEEDA	UFAWSMT007	25	83	Y
6	RINSHA T P	UFAWSMT008	25	83	Y
7	SAHANA MUMTHAZ	UFAWSMT010	30	100	Y
8	SANA M T	UFAWSMT011	25	83	Y
9	SANA V K	UFAWSMT012	5	17	N
10	SANEEBA K	UFAWSMT013	15	50	Y
11	SHAHMA C H	UFAWSMT014	10	33	N
12	SHIRINA SHARIN	UFAWSMT016	25	83	Y



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13	FAYIZ C	UFAWSMT017	30	100	Y
14	MOHAMMED SWALIH C	UFAWSMT018	20	67	Y
15	MUHAMMED SINAN S V	UFAWSMT019	5	17	N
16	SHAHID IRFAN T P	UFAWSMT020	10	33	N
17	ARYA V R	UFAWSMT021	10	33	N
18	ASNA RUBA K	UFAWSMT022	20	67	Y
19	FATHIMA RANNA T	UFAWSMT024	25	83	Y
20	HANNA MOL	UFAWSMT025	25	83	Y
21	HARSHA MOHANDAS C M	UFAWSMT026	5	17	N
22	MANYA P	UFAWSMT028	25	83	Y
23	MINNA P	UFAWSMT029	30	100	Y
24	RINSHA V	UFAWSMT030	5	17	N
25	RISHIKA P K	UFAWSMT031	5	17	N
26	SARANYA K N	UFAWSMT032	15	50	Y
27	SHIFNA SHERI K	UFAWSMT033	25	83	Y
28	ABHINAV P	UFAWSMT034	5	17	N
29	AKSHAY RAJ K	UFAWSMT035	5	17	N
30	MAQBOOL RAASID M	UFAWSMT037	5	17	N



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31	SIBIL V	UFAWSMT038	10	33	N
32	VISHNU C	UFAWSMT039	0	0	N
33	MASHBOOBA S V	UFAWSMT040	20	67	Y
34	SAFA SHERIN P T	UFAWSMT041	25	83	Y
				19	
				55.88	

	CO1 to CO5
TARGET: 50% O	55.9



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DEPARTMENT OF MATHEMATICS

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

Sem.: V

ITS5B09 - INTRODUCTION TO GEOMETRY AND THEORY OF EQ

S+A 9+A 6-E+	Name of the student	REG NO	COURSE OUTCOM O 1 TO CO	CO ATTAINMENT CO 1 TO CO5	
		Max. Marks	75	%age	Y/N
1	ADLA P	UFAWSMT001	45	60	Y
2	DILSHA A P	UFAWSMT003	30	40	Y
3	HIBA SHERIN M K	UFAWSMT005	30	40	Y
4	HUSNA SHERIN K	UFAWSMT006	52.5	70	Y
5	MUFEEBA	UFAWSMT007	45	60	Y
6	RINSHA T P	UFAWSMT008	45	60	Y
7	SAHANA MUMTHAZ	UFAWSMT010	45	60	Y
8	SANA M T	UFAWSMT011	37.5	50	Y
9	SANA V K	UFAWSMT012	37.5	50	Y
10	SANEEBA K	UFAWSMT013	45	60	Y
11	SHAHMA C H	UFAWSMT014	30	40	Y
12	SHIFNA SHARIN	UFAWSMT016	45	60	Y
13	FAYIZ C	UFAWSMT017	37.5	50	Y
14	MOHAMMED SWALIH C	UFAWSMT018	37.5	50	Y
15	MUHAMMED SINAN S V	UFAWSMT019	30	40	Y
16	SHAHID IRFAN T P	UFAWSMT020	37.5	50	Y

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17	ARYA V R	UFAWSMT021	37.5	50	Y
18	ASNA RUBA K	UFAWSMT022	45	60	Y
19	FATHIMA RANNA T	UFAWSMT024	30	40	Y
20	HANNA MOL	UFAWSMT025	30	40	Y
21	HARSHA MOHANDAS C M	UFAWSMT026	0	0	N
22	MANYA P	UFAWSMT028	30	40	Y
23	MINNA P	UFAWSMT029	37.5	50	Y
24	RINSHA V	UFAWSMT030	0	0	N
25	RISHIKA P K	UFAWSMT031	0	0	N
26	SARANYA K N	UFAWSMT032	30	40	Y
27	SHIFNA SHERI K	UFAWSMT033	30	40	Y
28	ABHINAV P	UFAWSMT034	0	0	N
29	AKSHAY RAJ K	UFAWSMT035	0	0	N
30	MAQBOOL RAASI P M	UFAWSMT037	30	40	Y
31	SIBIL V	UFAWSMT038	30	40	Y
32	VISHNU C	UFAWSMT039	0	0	N
33	MASHBOOBA S V	UFAWSMT040	0	0	N
34	SAFA SHERIN P T	UFAWSMT041	36	48	Y
				27	
				87.10	
		FOR L&L (MTS5B08)	CO1 to CO5 87.10		
		TARGET: 75% OF STUDENTS WILL SCORE 35% OF MARKS			



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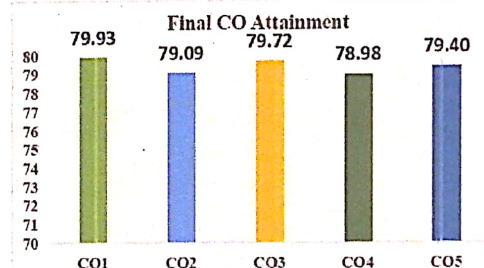


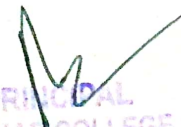
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DEPARTMENT OF ENGLISH
COURSE EXIT SURVEY RESPONSES (ODD SEM. 2024-2025)

COURSE EXIT SURVEY RESPONSES (ODD SEM : 2024-2025)												
Semester: V		5B09 - INTRODUCTION TO GEOMETRY AND THEORY OF E										
Name of the faculty member: SHARSHAD AMEERA												
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	Understanding Linear Programming Basics	Are you able to Understand Linear Programming Basics	0	0	0	7	17	9	33	3.53	5	70.53
CO2	Formulation of Linear Programming Problems	Are you able to Formulate Linear Programming Problems	0	0	1	9	18	5	33	3.32	5	66.32
CO3	Implementation of the Simplex Method	Are you able to Implement the Simplex Method	0	0	0	8	17	8	33	3.47	5	69.47
CO4	Application of Duality Theory	Are you able to Apply Duality Theory	0	1	0	12	12	8	33	3.29	5	65.79
CO5	Evaluation and Application of Transportation & Assignment Problems	Are you able to Evaluate and Apply Transportation & Assignment Problems	0	2	0	8	12	11	33	3.39	5	67.89

CO Assessment method	CO1	CO2	CO3	CO4	CO5
Direct method (IA Test, Assignment/quiz and exam)	82	82	82	82	82
Weightage (80%)	66	66	66	66	66
Indirect method (Course Exit Survey)	70.53	66.32	69.47	65.79	67.89
Weightage (20%)	14.11	13.26	13.89	13.16	13.58
Final CO Attainment	79.93	79.09	79.72	78.98	79.40




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