



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

| COURSE PLAN | | | | | | | | | | | |
|--|---|-----|-----|-----|---------------|---------|---|-----|-----|------|--|
| Course code and title | MAT1FM105(2) MATHEMATICS FOR COMPETITIVE EXAMINATIONS - PART I | | | | | | | | | | |
| Class | BSc Mathematics Honours | | | | Semester | I | | | | | |
| Regulation | 2024 | | | | Academic year | 2024-28 | | | | | |
| Course prerequisites | Basic Arithmetic and Computational Skill | | | | | | | | | | |
| Course objectives | <ul style="list-style-type: none">• The course is designed to equip students with essential arithmetic and problem-solving skills required for competitive exams | | | | | | | | | | |
| | <ul style="list-style-type: none">• It covers topics ranging from fundamental arithmetic operations such as number systems, fractions, and roots to more advanced concepts like financial mathematics, time-speed-distance calculations, and problem-solving techniques.. | | | | | | | | | | |
| COURSE OUTCOMES | | | | | | | | | | | |
| At the end of the course the student would be able to... | | | | | | | | | | | |
| CO1 | Apply mathematical methods to solve problems | | | | | | | | | | |
| CO2 | Apply numerical skills in competitive examinations | | | | | | | | | | |
| CO3 | Manage time in competitive examinations | | | | | | | | | | |
| MAPPING OF PROGRAM OUTCOMES | | | | | | | | | | | |
| COs | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | |
| CO1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| CO2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | |
| CO3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | |
| 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 | | | | |




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| | | | |
|---------------------------|--|------|-------------------------|
| PO5 | Scientific awareness & Critical Thinking | PO10 | Democratic Co-existence |
| PROGRAM SPECIFIC OUTCOMES | | | |
| PSO1 | Advanced Mathematical Knowledge | | |
| PSO2 | Modelling and Problem-Solving Skills | | |
| PSO3 | Computational Proficiency | | |
| PSO4 | Research Aptitude | | |
| PSO5 | Mathematics Proficiency | | |
| PSO6 | Interdisciplinary Integration | | |

| MAPPING OF COURSE OUTCOMES TO PROGRAM EDUCATIONAL OUTCOMES | | | |
|--|-----------------|-----|-----|
| PROGRAM EDUCATIONAL OUTCOMES | COURSE OUTCOMES | | |
| | CO1 | CO2 | CO3 |
| PEO1 | ✓ | | |
| PEO2 | ✓ | | |
| PEO3 | | ✓ | ✓ |




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References

TEXT BOOKS:

1. Fast Track Objective Arithmetic, Rajesh Verma, Arihant Publications India limited, 2018 (Primary Reference).

REFERENCES:

1. Objective Arithmetic for Competitive Examinations, Dinesh Khattar, Pearson Education, 2020.
2. Quicker Objective Arithmetic, Dr Lal, Jain, Upkar's publication, 2010

| | |
|----------------------|---|
| e-learning resources | https://www.coursera.org/learn/basicmathematics?action=enroll&utm |
| Mode of Evaluation | Internal Examination (30%) End Semester Examination (70%) |
| Faculty | Shamna Sherin P, Assistant Professor(on contract)/ Department of Mathematics |
| e-mail id | shamnasherinpwr@gmail.com |




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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 - Fundamentals of Arithmetic | | | | | | |
| 1 | 21/08/24 | Number System | | R1/WB | 21/8/24 | |
| 2 | 22/08/24 | Number Series | | R1/WB | 23/8/24 | |
| 3 | 23/08/24 | Simple and Decimal Fractions | | T1/WB | 30/8/24 | |
| 4 | 29/08/24 | HCF and LCM | | T1/WB | 5/9/24 | |
| 5 | 30/08/24 | Square root and Cube root | | PPT/R2 | 6/9/24 | |
| Planned hours | Actual hours | Date | Sign of Faculty | Review by HoD | Review by Principal | |
| | | | | | | |
| MODULE II - Basic Arithmetic Operations | | | | | | |
| 6 | 04/09/24 | Simplification | | R1/PPT | 12/9/24 | |
| 7 | 05/09/24 | Average | | R2/PPT | 18/9/24 | |
| 8 | 06/09/24 | Ratio and Proportion | | T1/WB | 20/9/24 | |
| 9 | 11/09/24 | Problems based on ages | | R1/WB | 26/9/24 | |
| 10 | 12/09/24 | Percentage | | T1/PPT | 28/9/24 | |
| Planned hours | Actual hours | Date | Sign of Faculty | Review by HoD | Review by Principal | |
| | | | | | | |
| MODULE III - Financial Mathematics | | | | | | |
| 11 | 18/09/24 | Profit and Loss | | R1/PPT | 3/10/24 | |
| 12 | 19/09/24 | Discount | | T1/WB | 4/10/24 | |
| 13 | 20/09/24 | Simple Interest | | R2/WB | 10/10/24 | |
| 14 | 25/09/24 | Compound Interest | | T1/WB | 11/10/24 | |
| 15 | 26/09/24 | Work and Time | | T2/WB | 16/10/24 | |
| Planned hours | Actual hours | Date | Sign of Faculty | Review by HoD | Review by Principal | |
| | | | | | | |



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| | | | | | | |
|--|---------------------|--------------------------|------------------------|----------------------|----------------------------|--|
| | | | | | | |
| MODULE IV - Time, Speed, and Distance | | | | | | |
| 16 | 27/09/24 | Speed, Time and Distance | | R1/WB | 23/10/24 | |
| 17 | 03/10/24 | Problems based on trains | | R2/PPT | 24/10/24 | |
| 18 | 04/10/24 | Boats and Streams | | T1/WB | 25/10/24 | |
| 19 | 09/10/24 | Clock and Calendar | | T2/PPT | 30/10/24 | |
| Planned hours | Actual hours | Date | Sign of Faculty | Review by HoD | Review by Principal | |
| | | | | | | |
| MODULE V - Open Ended | | | | | | |
| 20 | 10/10/24 | Mixture or Alligation | | R1/WB | 1/11/24 | |
| 21 | 11/10/24 | Partnership | | R2/WB | 6/11/24 | |
| 22 | 16/10/24 | Pipes and Cisterns | | T1/WB | 8/11/24 | |
| Planned hours | Actual hours | Date | Sign of Faculty | Review by HoD | Review by Principal | |
| | | | | | | |

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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 | Apply mathematical methods to solve problems | Remember | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 1 | | |
| CO2 | Apply numerical skills in competitive examinations | Apply | 3 | 1 | 3 | 2 | 3 | 1 | 2 | | 1 | |
| CO3 | Manage time in competitive examinations | Apply & Analyze | 2 | 2 | 2 | 2 | 2 | 1 | 2 | | | 1 |
| INDIRECT METHOD | | | | | | | | | | | | |
| Class Room contests | | Analyze & Create | 1 | | | | | 1 | 2 | | | |

Course Faculty

IQAC 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).

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 | Apply mathematical method to solve problem | ✓ | | | |
| CO2 | Apply numerical skills in competitive examinations | | ✓ | | |
| CO3 | Manage time in competitive examinations | | | ✓ | |

Name of the student:

Anaswara - K

Signature of the student



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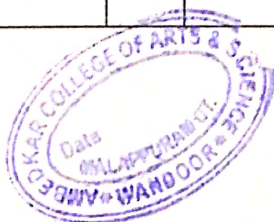




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Syllabus

| Module | Unit | Content | Hrs (36+ 9) | Ex Marks (50) |
|------------|---------------------------|----------------------------------|-------------------|---------------------|
| I | 1 | | 9 | Min 10 |
| | 2 | What come Next | | |
| | 3 | Odd One out | | |
| | 4 | Coding and Decoding | | |
| | 5 | Ranking Test | | |
| II | Reasoning Contd. | | 9 | Min 10 |
| | 6 | Blood relations | | |
| | 7 | Blood relations Contd. | | |
| | 8 | Direction Sense Test | | |
| | 9 | Direction Sense Test contd. | | |
| III | Spatial Reasoning | | 9 | Min 10 |
| | 11 | Figure analogy | | |
| | 12 | Figure series | | |
| | 13 | Figure Classification | | |
| | 14 | Mirror and Water Images | | |
| IV | Abstract Reasoning | | 9 | Min 10 |
| | 16 | Cube and Dice | | |
| | 17 | Logical and Analytical Reasoning | | |
| | 18 | Geometry mensuration | | |
| | 19 | Data Interpretation | | |



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| V | OpenEnded | | 9 | Min 10 |
|---|-----------|-----------------------|---|-----------|
| | 20 | Mixture or Alligation | | |
| | 21 | Partnership | | |
| | 22 | Pipes and Cisterns | | |

Reference Books:

1. A Fast Track Course in MENTAL ABILITY, Amogh Goel, Arihant Publications India limited, 2016. (Primary Reference).
2. The Mental Ability, Logical Reasoning & Problem-Solving Compendium for IAS Prelims General Studies Paper 2 & State PSC Exams, Disha Experts, Disha Publications, 2018.
3. The Pearson Guide to Verbal Ability and Logical Reasoning for the CAT, Nishit K. Sinha, Pearson Education, 2014.

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Course outcome –Program Specific outcome Mapping Table

| Course outcomes | Program Specific outcomes | | | | | |
|-----------------|---------------------------|------|------|------|------|------|
| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 |
| CO1 | | | | | 2 | 0 |
| CO2 | | | | | 2 | 0 |
| CO3 | | | | | 2 | 0 |

Course Faculty

QAC Member

HoD



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DIRECT ASSESSMENT OF COURSE OUTCOMES

| INTERNAL ASSESSMENT TEST 25 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 | | | |
| ASSIG NMENT 5 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 100 MARKS (Reduced to 80Marks) | | | | |
| Objective | To assess the each student's knowledge of the course | | | |
| Product | Result analysis | | | |
| Frequency | Semester | | | |
| Format | Part -A 10 x 2 =16 marks, Part -B 5 x 6 = 24 marks, Part - C 1 x 10 = 10 marks Total marks = 50 Duration : 1.5 hours | | | |
| Evaluation | Based on answer given in the scripts | | | |
| Marks out of 100 | 15-25 | 25- 35 | 35-50 | 0-15 |
| 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: MAT1FM105(2) - MATHEMATICS FOR COMPETITIVE EXAMINATIONS - PART I

Name of the faculty member: SHAMNA SHERIN P

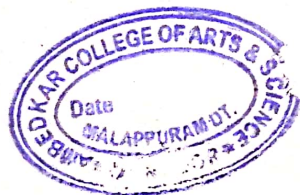
| Sl. No. | NAME OF THE STUDENT | REG NO | Are you able to Understand Linear Programming Basics | Are you able to Formulate Linear Programming Problems | Are you able to Implement the Simplex Method | Are you able to Apply Duality Theory | Are you able to Evaluate and Apply Transportation & Assignment Problems |
|-----------------|---------------------|------------|--|---|--|--------------------------------------|---|
| COURSE OUTCOMES | | | CO1 | CO2 | CO3 | CO4 | CO5 |
| 1 | MEERA ARJUN K | UFAWSMT001 | 5 (EXCELLENT) | 5 (EXCELLENT) | 5 (EXCELLENT) | 4 (Very Good) | 5 (Excellent) |
| 2 | FARSANA V | UFAWSMT003 | 4 (Very Good) | 4 (Very Good) | 4 (Very Good) | 5 (Excellent) | 4 (Very Good) |
| 3 | AJNAH HANAN K P | UFAWSMT005 | 4 (Very Good) | 4 (Very Good) | 3 (Good) | 1 (Fair) | 3 (Good) |
| 4 | SREENANDANA T | UFAWSMT006 | 4 (Very Good) | 4 (Very Good) | 4 (Very Good) | 5 (EXCELLENT) | 4 (Very Good) |
| 5 | ASHIQA E P | UFAWSMT007 | 4 (Very Good) | 3 (Good) | 4 (Very Good) | 5 (EXCELLENT) | 3 (Good) |
| 6 | ANURAG A T | UFAWSMT008 | 3 (Good) | 3 (Good) | 3 (Good) | 3 (Good) | 3 (Good) |
| 7 | FATHIMA RISHANA N | UFAWSMT010 | 3 (Good) | 4 (Very Good) | 3 (Good) | 5 (EXCELLENT) | 5 (EXCELLENT) |
| 8 | SARATH KRISHNA C K | UFAWSMT011 | 5 (EXCELLENT) | 3 (Good) | 4 (Very Good) | 3 (Good) | 5 (EXCELLENT) |
| 9 | ASLA A M | UFAWSMT012 | 5 (EXCELLENT) | 5 (EXCELLENT) | 5 (EXCELLENT) | 4 (Very Good) | 5 (EXCELLENT) |
| 10 | BINSIYA E | UFAWSMT013 | 5 (EXCELLENT) | 4 (Very Good) | 4 (Very Good) | 4 (Very Good) | 4 (Very Good) |
| 11 | ANASWARA K | UFAWSMT014 | 3 (Good) | 3 (Good) | 3 (Good) | 3 (Good) | 3 (Good) |
| | | | | | | | |
| | | | | | | | |

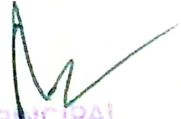


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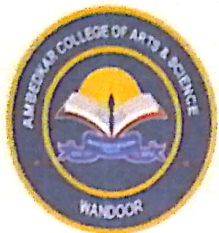


| | | | | | |
|-------------------|---|---|---|---|---|
| No. of graded "5" | 4 | 2 | 2 | 4 | 4 |
|-------------------|---|---|---|---|---|




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DEPARTMENT OF MATHEMATICS

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

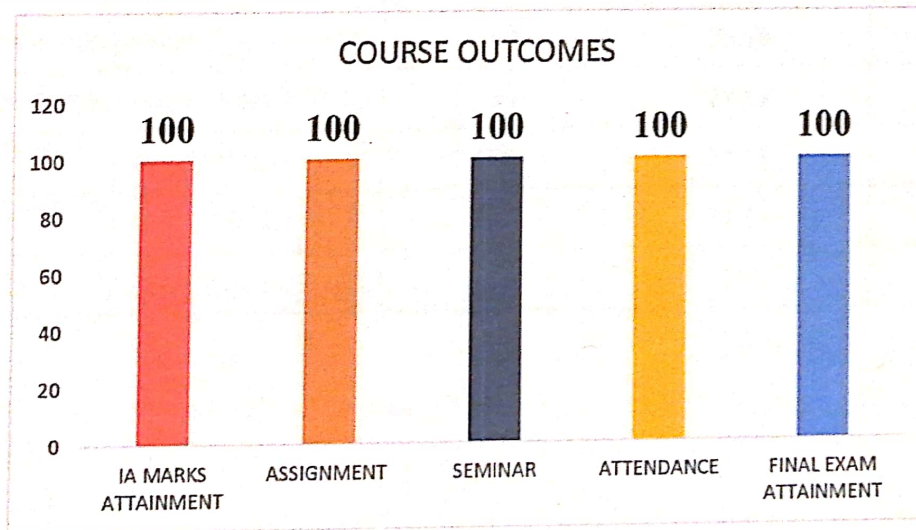
Semester: V

V105(2) - MATHEMATICS FOR COMPETITIVE EXAMINATIONS

Name of the faculty member: SHAMNA SHERIN P

TARGET: 60% ATTAINMENT

| COs | CO1 to CO5 |
|-----------------------|------------|
| IA MARKS ATTAINMENT | 100 |
| ASSIGNMENT | 100 |
| SEMINAR | 100 |
| ATTENDANCE | 100 |
| FINAL EXAM ATTAINMENT | 100 |
| AVERAGE | 100 |




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

Semester: V

Course: MAT1FM105(2) - MATHEMATICS FOR COMPETITIVE EXAMINATIONS - PART I

Name of the faculty member: SHAMNA SHERIN P

(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 | 100 | 23.68 | 85 | 75 | YES |
| CO2 | PO1, PO3, PO5 & PO7 | PSO1, PSO2 & PSO3 | 100 | 22.11 | 84 | | |
| CO3 | PO1, PO2, PO3, PO5 & PO9 | PSO1, PSO2 & PSO3 | 100 | 22.11 | 84 | | |
| CO4 | PO1, PO3, PO4, PO5 & PO8 | PSO1, PSO2 & PSO3 | 100 | 22.11 | 84 | | |
| CO5 | PO1, PO4, PO5, PO7 & PO8 | PSO1, PSO2 & PSO3 | 100 | 23.16 | 85 | | |



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




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DEPARTMENT OF MATHEMATICS

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

Sem.: V

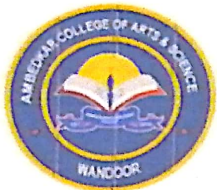
105(2) - MATHEMATICS FOR COMPETITIVE EXAMIN

Name of the faculty member: SHAMNA SHERIN P

| Name of the faculty member: Dr. Manoj Chandra | | | | | |
|---|---------------------|------------|------------|-----------------|-----|
| 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 | MEERA ARJUN K | UFAYBCM030 | 24 | 80 | Y |
| 2 | FARSANA V | UFAYBCM018 | 30 | 100 | Y |
| 3 | AJNAH HANAN K P | UFAYBCM002 | 24 | 80 | Y |
| 4 | SREENANDANA T | UFAYBCM056 | 24 | 80 | Y |
| 5 | ASHIQA E P | UFAYBCM011 | 30 | 100 | Y |
| 6 | ANURAG A T | UFAYBCM007 | 24 | 80 | Y |
| 7 | FATHIMA RISHANA N | UFAYBCM022 | 30 | 100 | Y |
| 8 | SARATH KRISHNA C K | UFAYBCM048 | 24 | 80 | Y |
| 9 | ASLA A M | UFAYBCM013 | 27 | 90 | Y |
| 10 | BINSIYA F | UFAYAEG019 | 30 | 100 | Y |
| 11 | ANASWARA K | UFAYAEG009 | 30 | 100 | Y |
| | | | | | |


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Wandoor (PO), Pin 679328, Ph: 04931-249666
acaswandoor@gmail.com, Website: www.ambedkarcollegewdr.in

DEPARTMENT OF MATHEMATICS

| | | | |
|--|---------------|------------|--------|
| | | | 11 |
| | | | 100.00 |
| | | CO1 to CO5 | |
| | TARGET: 50% C | 100.0 | |




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DEPARTMENT OF MATHEMATICS

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

Sem.: V

AT1FM105(2) - MATHEMATICS FOR COMPETITIVE EXAMINATION:

| 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 | 50 | %age | Y/N |
| 1 | MEERA ARJUN K | UFAYBCM030 | 15 | 30 | Y |
| 2 | FARSANA V | UFAYBCM018 | 29 | 58 | Y |
| 3 | AJNAH HANAN K P | UFAYBCM002 | 18 | 36 | Y |
| 4 | SREENANDANA T | UFAYBCM056 | 19 | 38 | Y |
| 5 | ASHIQA E P | UFAYBCM011 | 24 | 48 | Y |
| 6 | ANURAG A T | UFAYBCM007 | 15 | 30 | Y |
| 7 | FATHIMA RISHANA N | UFAYBCM022 | 28 | 56 | Y |
| 8 | SARATH KRISHNA C K | UFAYBCM048 | 28 | 56 | Y |
| 9 | ASLA A M | UFAYBCM013 | 24 | 48 | Y |
| 10 | BINSIYA E | UFAYAEG019 | 28 | 56 | Y |
| 11 | ANASWARA K | UFAYAEG009 | 28 | 56 | Y |
| | | | | | |
| | | | | 11 | |
| | | | | 100.00 | |



| | | |
|---|---------------|--|
| FOR L&L (MTS5B08) | CO1 to CO5 | |
| | 100.00 | |
| TARGET: 75% OF STUDENTS WILL SCORE 35% OF MARKS | | |

(Signature)
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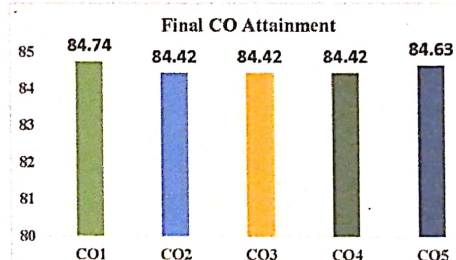


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DEPARTMENT OF ENGLISH
COURSE EXIT SURVEY RESPONSES (ODD SEM. 2024-2025)

| Semester: V | | 1FM105(2) - MATHEMATICS FOR COMPETITIVE EXAMINATIONS | | | | | | | | | | |
|---|--|---|-----------------------------------|---|---|---|---|---|-----------------|------------------|---------------|--------------------|
| Name of the faculty member: SHAMNA SHERIN P | | | | | | | | | | | | |
| 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 | 3 | 4 | 4 | 11 | 1.18 | 5 | 23.68 |
| CO2 | Formulation of Linear Programming Problems | Are you able to Formulate Linear Programming Problems | 0 | 0 | 0 | 4 | 5 | 2 | 11 | 1.11 | 5 | 22.11 |
| CO3 | Implementation of the Simplex Method | Are you able to Implement the Simplex Method | 0 | 0 | 0 | 4 | 5 | 2 | 11 | 1.11 | 5 | 22.11 |
| CO4 | Application of Duality Theory | Are you able to Apply Duality Theory | 0 | 1 | 0 | 3 | 3 | 4 | 11 | 1.11 | 5 | 22.11 |
| CO5 | Evaluation and Application of Transportation & Assignment Problems | Are you able to Evaluate and Apply Transportation & Assignment Problems | 0 | 0 | 0 | 4 | 3 | 4 | 11 | 1.16 | 5 | 23.16 |

| CO Assessment method | CO1 | CO2 | CO3 | CO4 | CO5 |
|---|-------|-------|-------|-------|-------|
| Direct method (IA Test, Assignment/quiz and exam) | 100 | 100 | 100 | 100 | 100 |
| Weightage (80%) | 80 | 80 | 80 | 80 | 80 |
| Indirect method (Course Exit Survey) | 23.68 | 22.11 | 22.11 | 22.11 | 23.16 |
| Weightage (20%) | 4.74 | 4.42 | 4.42 | 4.42 | 4.63 |
| Final CO Attainment | 84.74 | 84.42 | 84.42 | 84.42 | 84.63 |



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