



**OFFICE OF THE ACADEMIC REGISTRAR
MAJULI UNIVERSITY OF CULTURE**

Majuli, Assam- 785104
Email: mucmajuli19@gmail.com

MUC/RG/AC/22-23/119

Date: 27/07/2024

NOTIFICATION

The 8th Meeting of the Academic Council, Majuli University of Culture, Majuli held on 27/05/2024 vide **Resolution No.11** has approved the **Ability Enhancement Course Mathematical and Reasoning Ability** for 3rd Semester of Five-Year Integrated Masters(FYUGP+1 Year Masters) Programme of Majuli University of Culture, Majuli, with effect from the Academic Session 2024-2025.

Enclosed: As Annexure I

Issued with due approval.

Academic Registrar
Majuli University of Culture
Majuli

Copy to:

1. The Hon'ble Vice-Chancellor, MUC, Majuli for favour of kind information.
2. Registrar, MUC, Majuli for favour of kind information.
3. Controller of Examinations, MUC, Majuli for kind information.
4. The Heads of the Departments, MUC, Majuli, Assam for information and needful.
5. Website in-charge, MUC, Majuli needful.
6. Office file.

Academic Registrar
Majuli University of Culture
Majuli



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Annexure I

**Syllabus for Ability Enhancement Course Mathematical
and Reasoning Ability of Five-Year Integrated Masters
(FYUGP+1 Year Masters) Programme**



MAJULI UNIVERSITY OF CULTURE

**COURSE STRUCTURE OF FYUGP IN MAJULI UNIVERSITY OF CULTURE
(UNDER NEP-2020)
DETAILED SYLLABUS OF 3RD SEMESTER ABILITY ENHANCEMENT COURSE**

Title of the Course: Mathematical and Reasoning Ability

Course Code: AEC231

Nature of the Course: Ability Enhancement Course (AEC)

Total Credits: 02 (L=2, T=0, P=0)

Distribution of Marks: 35 (End Sem) + 15 (In-Sem)

Course Objectives:

1. To enhance the basic mathematics skills and logical reasoning which required in day-to-day life.
2. To analyze and draw conclusions from the data, which may be presented in the form of tables or graphs.
3. To develop the critical and logical thinking.

UNITS	CONTENTS	*L	T	P	Total Hours
I (10 Marks)	Letter and Symbol series, Coding-decoding, Calendar and clocks, Distance and directions, Venn-diagrams, Binary logic, Data accuracy, Missing numbers, Odd Man out and Series, Graphical representation (Bar-chart, Histogram, Table-chart and Line chart)	9	-	-	9
II (15 Marks)	Number system, Percentage, Square Root& Cube roots, Average, Factors and Multiples, HCF and LCM of numbers, Division algorithm, Divisibility, Test of prime numbers, Profit & loss, Problems based on Age, Time, speed & distance, Time & work, Partnership, Ratio & Proportions, Simple Interest and Compound Interest, Pipes and Cisterns	12	-	-	12
III (10 Marks)	Surds and Indices, Quadratic equation, Progression (AP, GP, HP), Basic idea on Probability, Basic formula on Trigonometry, Height and Distance, Permutation and Combination, Mensuration, Volume, Surface area and Perimeter	9	-	-	9
Total		30			30

* L: Lectures T: Tutorials P: Practical

In-semester Assessment: (15 Marks)

1. One Internal Examination - 10 Marks
2. Others (any one or more) - 05 Marks

i) Assignment

ii) Group Discussion

iii) Quiz

iv) Viva-Voce

Learning Outcomes:

After completion of this course, the learner will be able to:

1. Solve the problem based on critical thinking with logic and reasoning in day-to-day life.
2. Use basic Mathematics as a tool to understand and solve the real-life problems.
3. Use basic Mathematics for competitive examinations

SUGGESTED READINGS:

1. Agarwal R.S., Quantitative Aptitude for Competitive Examinations, S. Chand Publishers, 2017.
2. Agarwal R.S., A Modern Approach to Verbal and Non-verbal reasoning, S. Chand Publisher, 2018.
3. Jaikishan Premkishan, How to crack Test of Reasoning, Arihant Publishers, 2018.
4. Verma R., Fast track objective arithmetic, Arihant Publishers, 2018.
