

**DEPARTMENT OF PHYSICS**  
**HENRY BAKER COLLEGE , MELUKAVU**  
**Certificate Programme 2023 – 24**

**Programme code :** HBC/PHY/CP01/2023-24

**Name of the programme :** Logical Reasoning

**Name of the Faculty in charge :** Ms. Risana P.A

**Instructional Hours :** 30 Hours

**SYLLABUS**

**Objective:** To impart in students an understanding of Logical Reasoning, that will help them to excel in competitive exams.

**Learning Outcome:** Students learn certain reasoning skills that help them to solve questions in competitive exams.

**Module 1 : Verbal Reasoning** **(6 hours)**

Blood Relations , Directions & Distance , Seating Arrangements , Clocks , Calendar

**Module 2 : Coding and Decoding** **(6 hours)**

Letter Coding , Number Coding , Symbol Based Coding , Letter – Numerical Coding , Substitutional Coding, Indirect Coding , Chain Decoding.

**Module 3 : Non Verbal Reasoning** **(6 hours)**

Analogy , Classification , Series Completion , Completion of Figures , Dice , Venn Diagram , Mirror Image.

**Module 4 : Arithmetic Reasoning****(8 hours)**

Algebra , Ages , Ratio & Proportion , Percentage , HCF & LCM , Fractions , Games and Tournaments , Sequence & Patterns.

**Module 5 : Series & Missing Number****(4 hours)**

Number Series , Alphabet Series , Repetition Series , Missing number

**REFERENCES**

- 1) A Modern Approach to Logical Reasoning – R.S.Agarwal.
- 2) Reasoning for Competitive Exams by Nishit K Sinha.
- 3) A New Approach to Reasoning Verbal & Non Verbal – B.S.Sijwali & Indu Sijwali.

**DEPARTMENT OF PHYSICS**  
**HENRY BAKER COLLEGE, MELUKAVU**  
**Certificate Programme 2023-24**  
**LOGICAL REASONING**

**LIST OF STUDENTS ENROLLED**

<b>Sl. No</b>	<b>Enrolment ID</b>	<b>Name of the students</b>
1	22MC404	HARIKRISHNAN S
2	22MC405	JINU K C
3	22MC406	LINTA THOMAS
4	22MC407	SANDRA JOSEPH
5	22MC408	SNEHA SHYJU
6	22MC409	THARA BABU
7	22MC410	VYSAKH B NAIR
8	22PH601	ABHISHEK RAJU
9	22PH602	AUSTIN SABU
10	21PH601	ASHKAR NOORUDHIN
11	21PH602	DARSANA SANOJ
12	21PH603	HALEEMA BEEVI K M
13	21PH604	NESEEM V S
14	21PH605	SUMAYYA P N
15	21HS108	ANIL SEBASTIAN
16	21HS147	VISHNUPRIYA S
17	21EN317	LIYA JOHNSON
18	21EN318	MEENAKSHI V M
19	22MH513	SHEMEEMA THASNI

**Head of the Department**

**Principal**

**Course Coordinator**

**DEPARTMENT OF PHYSICS**  
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**Certificate Programme 2023-24**

**LOGICAL REASONING**

**Assessment Procedures :**

To deliver the curriculum content , theory as well as problem sessions were carried out.

For assessment written exam was conducted.

**Summary Report of the Programme :**

A well-structured certificate program focused on logical reasoning, designed to equip students with the necessary skills to excel in competitive exams. The primary aim of the certificate program is to impart logical reasoning concepts and tricks to help students excel in competitive exams. The curriculum spans 30 hours and is carefully designed to cover essential logical reasoning concepts required for success in various competitive exams. 19 students participated in the program, indicating a manageable class size that allows for personalized attention and interaction. The program emphasizes problem-solving sessions, which are crucial for honing logical reasoning skills as they provide practical application of theoretical concepts. Following the delivery of course content, a written examination is conducted for evaluation purposes. This assessment likely gauges the students' understanding and application of the logical reasoning concepts taught during the program. Certificates are issued upon completion of the course, indicating that students have successfully acquired the necessary knowledge and skills in logical reasoning. Overall, this certificate program appears to be structured to provide a comprehensive understanding of logical reasoning and equip students with the tools needed to excel in competitive exams.

**Outcome :**

On completion of the course, students gained a good knowledge of logical reasoning concepts and tricks that will help them in confidently appearing for competitive exams. This will also be useful in their daily lives and their studies.





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## CERTIFICATE PROGRAMME - 2023-2024

This is to certify that ~~Mr.~~Ms. *Thana Babu*.....has

successfully completed the certificate programme in *Logical Reasoning*.....conducted by the

Department of *Physics*.....with Grade **B<sup>+</sup>** in the examination held on **14-03-2024**.....

*Risana*  
Course Coordinator

*M. J. J. J.*  
IQAC Coordinator



*gm*  
Principal  
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## CERTIFICATE PROGRAMME -2023-2024

This is to certify that Mr./Ms..... Haikrishnan. S.....has  
successfully completed the certificate programme in...Logical Reasoning.....conducted by the

Department of...Physics.....with Grade **A** in the examination held on...14-03-2024.....

Vishwa  
Course Coordinator

Dr. S. M. J.  
IQAC Coordinator



Principal  
Principal  
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This is to certify that *Mr./Ms.*..... **Vysakh B Nair**.....has  
successfully completed the certificate programme in..... **Logical Reasoning**..... conducted by the

Department of..... **Physics**..... with Grade **A** in the examination held on..... **14-03-2024**.....

*A. S. S. S.*  
Course Coordinator

*N.R.M.*  
IQAC Coordinator



*gn*  
Principal  
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This is to certify that *Mr. Ms.* *Abhishek Raja* .....has

successfully completed the certificate programme in.....*Logical Reasoning*.....conducted by the

Department of.....*Physics*.....with Grade *B<sup>+</sup>* in the examination held on.....*14-03-2024*.....

*Thirana*

Course Coordinator

*Prin*

IQAC Coordinator



*gn*  
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This is to certify that *Mr./Ms.* **Austin Sabu**.....has  
successfully completed the certificate programme in..... **Logical Reasoning**..... conducted by the  
Department of..... **Physics**..... with Grade **A<sup>+</sup>** in the examination held on..... **14-03-2024**.....

*Aisana*

Course Coordinator

*Princip*

IQAC Coordinator



*gm*

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This is to certify that *Mr.Ms.* **Ashkan Noosudhin**.....has

successfully completed the certificate programme in.....*logical Reasoning*.....conducted by the

Department of.....*Physics*.....with Grade **A** in the examination held on.....**14-03-2024**.....

*Krisna*

Course Coordinator



*Principal*

IQAC Coordinator

Principal

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This is to certify that *Mr./Ms. Darsana Sanoj*.....has  
successfully completed the certificate programme in.....*Logical Reasoning*.....conducted by the

Department of.....*Physics*.....with Grade *A<sup>+</sup>* in the examination held on.....*14-03-2024*.....

*Darsana*

Course Coordinator

*[Signature]*

IQAC Coordinator



*[Signature]*  
Principal

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## CERTIFICATE PROGRAMME -2023-2024

This is to certify that *Mr./Ms. Haleema Beevi K M*.....has

successfully completed the certificate programme in.....*Logical Reasoning*.....conducted by the

Department of.....*Physics*.....with Grade *A* in the examination held on.....*14-03-2024*.....

*Hisana*

Course Coordinator

*[Signature]*

IQAC Coordinator



*[Signature]*

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This is to certify that *Mr./Ms.* **Neseem V.S**.....has  
successfully completed the certificate programme in **Logical Reasoning**.....conducted by the  
Department of **Physics**.....with Grade **A<sup>+</sup>** in the examination held on **14-03-2024**.....

*Mrs.ora*

Course Coordinator



*M.R.*

IQAC Coordinator

*gm*

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This is to certify that *Mr./Ms. Sumayya P.N*.....has  
successfully completed the certificate programme in.....*Logical Reasoning*.....conducted by the  
Department of.....*Physics*.....with Grade *A* in the examination held on.....*14-03-2024*.....

*Rishma*

Course Coordinator

*Amal*

IQAC Coordinator



*gm*

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This is to certify that *Mr. Ms.* **Anil Sebastian** ..... has  
successfully completed the certificate programme in **Logical Reasoning** ..... conducted by the

Department of **Physics** ..... with Grade **B<sup>+</sup>** in the examination held on **14 - 03 - 2024** .....

*Risana*

Course Coordinator

*W. J. P. N.*

IQAC Coordinator



*gm*

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This is to certify that *Mr/Ms*.....*Vishnupriya : S*.....has  
successfully completed the certificate programme in.....*Logical Reasoning*.....conducted by the

Department of.....*Physics*.....with Grade *B<sup>+</sup>* in the examination held on.....*14 - 03 - 2024*.....

*Prisona*  
Course Coordinator



*IQAC*  
IQAC Coordinator

*gm*  
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This is to certify that *Mr./Ms.*..... *Liya Johnson*..... *has*  
successfully completed the certificate programme in..... *Logical Reasoning*..... *conducted by the*

*Department of..... Physics..... with Grade A* in the examination held on..... *14-03-2024*.....

*Risara*  
Course Coordinator

*Princy*  
IQAC Coordinator



*Principal*  
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This is to certify that ~~Mr~~/Ms. *Meenakshi V.M*.....has

successfully completed the certificate programme in *Logical Reasoning*.....conducted by the

Department of *Physics*.....with Grade *A* in the examination held on *14-03-2024*.....

*Aisling*

Course Coordinator

*N.M.M*

IQAC Coordinator



*Principal*

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This is to certify that ~~Mr./Ms.~~ *Shameema Thasni* .....has  
successfully completed the certificate programme in..... *Logical Reasoning* .....conducted by the  
Department of..... *Physics* .....with Grade *B<sup>+</sup>* in the examination held on..... *14-03-2024* .....

*Risona*

Course Coordinator

*[Signature]*

IQAC Coordinator



*[Signature]*  
Principal

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This is to certify that *Mr. Ms. Jinu. K.C*.....has  
successfully completed the certificate programme in *Logical Reasoning*.....conducted by the  
Department of *Physics*.....with Grade *A* in the examination held on *14-03-2024*.....

*Jinu*

Course Coordinator

*Jinu*  
IQAC Coordinator



*Jinu*  
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This is to certify that Mr./Ms..... *Linfa Thomas*.....has

successfully completed the certificate programme in.....*logical Reasoning*.....conducted by the

Department of.....*Physics*.....with Grade *A* in the examination held on.....*14-03-2024*.....

*Linfa*

Course Coordinator



*Linfa*

IQAC Coordinator

*Linfa*

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This is to certify that Mr./Ms..... *Sandaa Joseph*.....has

successfully completed the certificate programme in.....*Logical Reasoning*.....conducted by the

Department of.....*Physics*.....with Grade **A** in the examination held on.....**14-03-2024**.....

*Ajitha*

Course Coordinator

*Ajitha*

IQAC Coordinator



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This is to certify that ~~Mr.~~Ms..... Sneha Shyju.....has

successfully completed the certificate programme in..... Logical Reasoning.....conducted by the

Department of..... Physics..... with Grade **B<sup>+</sup>** in the examination held on..... 14-03-2024.....

Arisara

Course Coordinator

W. P. N.

IQAC Coordinator



gm  
Principal

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