

Name of the Programme : M.A. (Philosophy)
Course Code : PHI-622
Title of the Course : Logical Reasoning and Critical Thinking
Number of Credits : 4
Effective from AY : 2023–24

Pre-requisites for the Course:	NIL		
Course Objectives:	This course aims at giving an understanding of the traditional classification of propositions. It also develops an understanding of Syllogism, Venn Diagram, and Analogies.		
Content:	1. Evaluating and distinguishing deductive and inductive reasoning, understanding the structure of arguments, structure of categorical propositions. 2. Classical Square of Opposition of Propositions, Conversion, Obversion, and Contraposition. 3. Form of Categorical Syllogism, Figure and Mood, Testing syllogism by rules. 4. Venn Diagram Technique for testing syllogism. 5. Analogies: Simple Analogy, Double Analogy, Triple Analogy. 6. Determining the validity of inferences, statements and assumptions, statements, and conclusions.	10 hours 10 hours 15 hours 15 hours 5 hours 5 hours	
Pedagogy:	Lectures/ tutorials.		
References/ Readings:	1. I. M. Copi, <i>Introduction to Logic</i> . New York: Macmillan Publishing Co., 1996. 2. I. M. Copi, C. Cohen, and McMahan, <i>Introduction to Logic</i> . New York: Macmillan, 2012. 3. K. T. Basantani, <i>Introduction to Logic</i> . Bombay: A.R. Sheth & Co., 1971. 4. Patrick Hurley, A. <i>Concise Introduction to Logic</i> . Delhi: Wadsworth, 2012. 5. V. E. Barry, <i>Practical Logic</i> . New York: Holt, Rinehart, 1997.		
Course Outcomes:	1. This course aims at developing cognitive abilities, which include understanding the structure of arguments, deductive and inductive reasoning 2. It will enable the students to think critically. 3. It will also develop the ability to reason logically. 4. This course will enable the students to prepare for NET/SET examination (Paper 1).		

[\(Back to Index\)](#)

Goa University
School of Sanskrit, Philosophy, & Indic Studies
SCHOOL OF TEACHING SCHEDULE
TEACHING SCHEDULE
III & Sem. I w.e.f. 16/06/2023 and 26/06/2023 respectively

Academic year 2023-24 Sem. III & Sem. I w.e.f. 16/06/2023

NB: * Indicates that only one of the two courses can be offered

Day/Time	10.30-11.30	11.30-12.30	12.30-13.30	13.30-14.30	14.30-15.30	15.30-16.30	16.30-17.30
Mon	501,WM/600*602,KT	501,WM/600*602,KT	Lunch-Break	603/621,NM	502, SD/621, NM	502, SD	603 Dissert.
Tue	500,RN/601,NM	500,RN/601,NM	Lunch-Break	503, KT/624	503, KT/622, SD	622, SD	624 Methodology
Wed	501,WM/600*602,KT	501,WM/600*602,KT	Lunch-Break	521RN/522*623WM	521RN/522*623WM	603 Research	603 Methodology
Thu	500,RN/601,NM	500,RN/601,NM	Lunch-Break	503, KT/624	503, KT/622, SD	622, SD	624 Dissert.
Fri	502,SD/621,NM	502,SD/621, NM	Lunch-Break	521RN/522*623WM	521RN/522*623WM	Mentor-Mentee	Mentor-Mentee

SEM-I (PSC Courses): PHI 500 History of Western Philosophy- Ms Rajavi Naik (**RN**)

PHI 501 Classical Indian Philosophy- Dr. Walter Menezes (**WM**)

PHI 502 Logic- Prof. Sanjyot D. Pai Vernekar (**SDPV**)

PHI 503 Contemporary Indian Philosophy- Prof. Koshy Tharakan (**KT**)

PHI 521 Environmental Ethics- Ms Rajavi Naik (**RN**)

PHI 521 Schools of Vedanta- Dr. Walter Menezes (**WM**)

PHI 522 Schools of Social Sciences- Prof. Koshy Tharakan (**KT**)

PHI 600 Philosophy of Existentialism- Dr. Norma Menezes (**NM**)

PHI 601 Philosophy of Martin Heidegger- Prof. Koshy Tharakan (**KT**)

PHI 602 Philosophy of Academic Writing (**SWAYAM Course**)

PHI 603 Philosophy of Gandhi- Dr. Norma Menezes (**NM**)

PHI 621 Philosophy of Human Rights- Dr. Walter Menezes (**WM**)

PHI 622 Logical Reasoning and Critical Thinking- Prof. Sanjyot D. Pai Vernekar (**SDPV**)

PHI 623 Philosophy of Human Rights- Dr. Walter Menezes (**WM**)

PHI 624 Women and Peace (MGPE-012 SWAYAM Course)

[Signature]
PD, Philosophy

Department of Philosophy
Paper No. 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 23 / 24 / 25 / 26 / 27 / 28 / 29 / 30 / 31 / 32 / 33 / 34 / 35 / 36 / 37 / 38 / 39 / 40 / 41 / 42 / 43 / 44 / 45

G O A U N I V E R S I T Y
ATTENDANCE SHEET

Class : M.A / M.COM / M.C.A / M.M.S / M.SC / Part II
 Academic Year 2023 - 2024 .

Term I / II / Months

Total number of lectures delivered by the teacher

Teacher's Name

during the term / Months

Sl. No.	Name of the Students	Date of Lectures	Time of Lectures	Attendance												Total	Remarks
				1	2	3	4	5	6	7	8	9	10	11	12		
1.	Pratiksha Prashant Vaze	Aug 31	2:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	31	
112.	Mathihalli Khandekar	Sept 1	3:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
63.	Anuya Rege	Sept 4	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
64.	Bhavana V. Kudtakar	Sept 5	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
85.	Vijay Kumar D'Souza	Sept 6	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
86.	Nikhil Kulkarni	Sept 7	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
91.	Clarissa Goncalves	Sept 8	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
18.	Veda Naik	Sept 9	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
49.	Adara Penmunde	Sept 10	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
610.	Kritika Motonkar	Sept 11	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
611.	Pallavi Naik	Sept 12	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
412.	Chetanji D. Naik	Sept 13	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
13.	Akansha P. Patankar	Sept 14	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
1014.	Meera Narayanan Kuttly	Sept 15	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
715.	Somnath U. Vangantekar	Sept 16	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
616.	Shivani D. Navrekar	Sept 17	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
17.	Shubha V. Chari	Sept 18	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	
18.	Bhagyashree Naik	Sept 19	4:30 P.M.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	30	

Signature of the Teacher

Signature of the Head of Dept.

NOTE : (a) The students shall put their signatures against their corresponding numbers of entries during / class.

Department of _____

Paper _____ (No.) _____ (Title) _____

G O A U N I V E R S I T Y

ATTENDANCE SHEET

Class : M.A. / M.COM/M.C.A. / M.M.S. / M.SC.(Part I), Academic Year _____

Total number of lectures delivered by the teacher during the _____ Month(s)

Term I / II / Months

Teacher's Name	Date of Lectures	Time of Lectures	No. of lectures delivered	Name of the Students	Total No. of Lectures	Total No. of Present
1) Adam . J. Fernandes	3/10/23 3/10/23 3/10/23 3/10/23 3/10/23 3/10/23 3/10/23	9:00 AM 4:30 PM 5:30 PM 6:00 PM 7:30 PM 8:30 PM 9:00 PM	(48) 48	2) Shubha Chavhan	12/10/23 12/10/23 12/10/23 12/10/23 12/10/23 12/10/23 12/10/23	50 50
3) Meenal Kuttikar	MEENAL MEENAL MEENAL MEENAL MEENAL MEENAL MEENAL	9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM	(49) 49	4) Anyaa Rojee	17/10/23 17/10/23 17/10/23 17/10/23 17/10/23 17/10/23 17/10/23	50 50
5) Prajita Vaze	PRAJITA PRAJITA PRAJITA PRAJITA PRAJITA PRAJITA PRAJITA	9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM	(50) 50	6) Bhavana V. Pendekar	18/10/23 18/10/23 18/10/23 18/10/23 18/10/23 18/10/23 18/10/23	50 50
7) Clarissa Goncalves	GONCALVES GONCALVES GONCALVES GONCALVES GONCALVES GONCALVES GONCALVES	9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM	(51) 51	8) Jiju k. Naik	19/10/23 19/10/23 19/10/23 19/10/23 19/10/23 19/10/23 19/10/23	50 50
9) Chaitali D. Naik	CHAITALI CHAITALI CHAITALI CHAITALI CHAITALI CHAITALI CHAITALI	9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM	(52) 52	10) Kavita Madenkar	20/10/23 20/10/23 20/10/23 20/10/23 20/10/23 20/10/23 20/10/23	50 50
11) Pallavi .U. Naik	PALLAVI PALLAVI PALLAVI PALLAVI PALLAVI PALLAVI PALLAVI	9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM	(53) 53	12) Vaishali Khandekar	21/10/23 21/10/23 21/10/23 21/10/23 21/10/23 21/10/23 21/10/23	50 50
13) Akanisha D. Pedukar	AKANISHA PEDUKAR PEDUKAR PEDUKAR PEDUKAR PEDUKAR PEDUKAR	9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM	(54) 54	14) Vijay Kumar Natraja	22/10/23 22/10/23 22/10/23 22/10/23 22/10/23 22/10/23 22/10/23	50 50
15) Somnudhi V. Vaigankar	SOMNUDH V. VAIGANKAR VAIGANKAR VAIGANKAR VAIGANKAR VAIGANKAR VAIGANKAR	9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM	(55) 55	16) Savitri Nanekar	23/10/23 23/10/23 23/10/23 23/10/23 23/10/23 23/10/23 23/10/23	50 50
17) Meera Nasarjanwani Kutty	MEERA NASARJANWANI KUTTY KUTTY KUTTY KUTTY KUTTY KUTTY KUTTY	9:00 AM 10:00 AM 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM	(56) 56	18) Bhagyalakshmi Naik	24/10/23 24/10/23 24/10/23 24/10/23 24/10/23 24/10/23 24/10/23	50 50

Signature of the Teacher _____

Signature of the Head of Dept. _____

NOTE : - The students shall mark their attendance against their permanent names at every lecture / class.

GOA UNIVERSITY
ATTENDANCE SHEET

Class : M.A. / M.COM./M.C.A. / M.M.S. / M.Sc./Part II
Academic Year 2023-24
Term I / IV Months

(Title)
Prof. Gangopadhyay

Total number of lectures delivered by the teacher

Teacher's Name	Date of Lectures	Time of Lectures	No. of lectures delivered	Name of the Students	during the term / Months												Total	Remarks
					1	2	3	4	5	6	7	8	9	10	11	12	13	
1. Meera Narayanan Kutty	20/08/2023	2:30 PM	1	Meera Narayanan Kutty	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2. Bhavani V. Khedkar	20/08/2023	3:30 PM	1	Bhavani V. Khedkar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3. Preiksha P. Vaze	21/08/2023	3:30 PM	1	Preiksha P. Vaze	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4. Chaitra Savina Consalves	22/08/2023	3:30 PM	1	Chaitra Savina Consalves	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5. Anyca A. S. Rege	23/08/2023	3:30 PM	1	Anyca A. S. Rege	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6. Veda K. Naik	24/08/2023	3:30 PM	1	Veda K. Naik	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7. Chetali Naik	25/08/2023	3:30 PM	1	Chetali Naik	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8. Shivani Norweda	26/08/2023	3:30 PM	1	Shivani Norweda	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9. Kritali Matonkar	27/08/2023	3:30 PM	1	Kritali Matonkar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10. Akansha D. Pednekar	28/08/2023	3:30 PM	1	Akansha D. Pednekar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11. Rakesh J. R.	29/08/2023	3:30 PM	1	Rakesh J. R.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12. Maithili Khandekar	30/08/2023	3:30 PM	1	Maithili Khandekar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
13. Nikhil Kulkarni	31/08/2023	3:30 PM	1	Nikhil Kulkarni	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14. Yashaswini Jaiswal	01/09/2023	3:30 PM	1	Yashaswini Jaiswal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15. Samruddhi Uday Vaigankar	02/09/2023	3:30 PM	1	Samruddhi Uday Vaigankar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16. Pallavi D. Naik	03/09/2023	3:30 PM	1	Pallavi D. Naik	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17. Adan J. Fernandes	04/09/2023	3:30 PM	1	Adan J. Fernandes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18. Bhagyashri Naik	05/09/2023	3:30 PM	1	Bhagyashri Naik	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19. Shubhika Chauhan	06/09/2023	3:30 PM	1	Shubhika Chauhan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

NOTE:- All the students along with their alternatives should put their representative names at every lecture / class.

Signature of the Teacher

Signature of the Head of Dept.

Department of _____
 Paper _____
 (No.) _____
 (Title) _____

G O A U N I V E R S I T Y

ATTENDANCE SHEET

Class : M.A. / M.COM./M.C.A. / M.M.S. / M.SC./Panji
 Academic Year _____
 Term I / II / Months _____

Total number of lectures delivered by the teacher _____

TSA During the term / Months _____

TSA _____

Ref. _____

Teacher's Name	Date of Lectures	Time of Lectures	No. of lectures delivered	Name of the Students	TSA	TSA During the term / Months	Total number of lectures delivered by the teacher
1. Meera Narayananukkutty	25.6.123	25.7.123	27.7.123	1.8.123	1.9.123	1.10.123	1.11.123
2. Bhavani V. Rashedan	2.7.123	3.7.123	3.8.123	3.9.123	3.10.123	3.11.123	3.12.123
3. Parvita Prashant Vaze	3.7.123	4.7.123	4.8.123	4.9.123	4.10.123	4.11.123	4.12.123
4. Udaya Sarina Gonvalva	4.7.123	5.7.123	5.8.123	5.9.123	5.10.123	5.11.123	5.12.123
5. Aryaan A. S. Rege	5.7.123	6.7.123	6.8.123	6.9.123	6.10.123	6.11.123	6.12.123
6. Vedha K. Hale	6.7.123	7.7.123	7.8.123	7.9.123	7.10.123	7.11.123	7.12.123
7. Chetali Neek	7.7.123	8.7.123	8.8.123	8.9.123	8.10.123	8.11.123	8.12.123
8. Shivani Narvekar	8.7.123	9.7.123	9.8.123	9.9.123	9.10.123	9.11.123	9.12.123
9. Nitali Patontakar	9.7.123	10.7.123	10.8.123	10.9.123	10.10.123	10.11.123	10.12.123
10. Skandha Pidikkan	10.7.123	11.7.123	11.8.123	11.9.123	11.10.123	11.11.123	11.12.123
11. Adan. T. Fernandes	11.7.123	12.7.123	12.8.123	12.9.123	12.10.123	12.11.123	12.12.123
12. Shubha Chauhan	12.7.123	13.7.123	13.8.123	13.9.123	13.10.123	13.11.123	13.12.123
13. Mohith Khadekhan	13.7.123	14.7.123	14.8.123	14.9.123	14.10.123	14.11.123	14.12.123
14. Vinay Kumar Nakkaon	14.7.123	15.7.123	15.8.123	15.9.123	15.10.123	15.11.123	15.12.123
15. Somrudhi Uday Vaigankar	15.7.123	16.7.123	16.8.123	16.9.123	16.10.123	16.11.123	16.12.123
16. Pallavi U. Naik	16.7.123	17.7.123	17.8.123	17.9.123	17.10.123	17.11.123	17.12.123
17. Bhawashri Naik	17.7.123	18.7.123	18.8.123	18.9.123	18.10.123	18.11.123	18.12.123
18. Nikhil Kutekar	18.7.123	19.7.123	19.8.123	19.9.123	19.10.123	19.11.123	19.12.123
19. Ravish A.R.	19.7.123	20.7.123	20.8.123	20.9.123	20.10.123	20.11.123	20.12.123

Signature of the Teacher

Signature of the Head of Dept.

NOTE : - (a) The attendances shall not exceed maximum regular number of hours per lecture / class.

GOA UNIVERSITY					
Exam	November 2023 Examination (Master of Science in Mathematics - MSMT)				
College	School of Physical and Applied Sciences				
Programme	Master of Science in Mathematics				
--					
Paper	PHI-622	Logical Reasoning and Critical Thinking		Max Marks	60 Credits
Paper Head	ISA				4

Seat No	Student Name	ISA Marks
22P0410001	ADAN JOAQUIM FERNANDES	52
22P0410005	ARYAA S REGE	59.75
22P0410007	CHETALI DAMODAR NAIK	49
22P0410008	CLARISA SARINA GONSALVES	55.75
22P0410011	KHEDEKAR BHAVANA VINOD	59.25
22P0410012	KRITALI PRASHANT MATONKAR	50.75
22P0410014	MAITHILI MAHADEV KHANDEKAR	56
22P0410018	NARVEKAR SHIVANI DEVANAND	57.75
22P0410019	NATEKAR VIJAYKUMAR YALLAPPA	51.50
22P0410021	NIKHIL NARSHIVA KUTTIKAR	54.25
22P0410022	PALLAVI UTTAM NAIK	51.25
22P0410023	PEDNEKAR AKANSHA DHANANJAY	54
22P0410030	SAMRUDHI UDAY VAIGANKAR	55.75
22P0410036	VAZE PRAJAKTA PRASHANT	59
22P0410037	VEDA KUSH NAIK	55

Certified that all the sub components have been taken into account while finalising the above marks.

NAME OF EXAMINER
Prof. Sayyol Pai
Vedavalkar

EXAMINERS'S SIGNATURE
S. Venekar

A. R. Alvy
 Dean/ Programme Director/ Principal's Signature
 Date: *15/11/2023*

N.B.NOTE : Department/College may kindly confirm that the above details are correct with reference to paper title, paper code and number of credits.

<< Absentees should be marked as 'A' (without quotes) >>
 << Carry forward of marks should be indicated as 'CF' (without quotes) >>

GOA UNIVERSITY			
Exam	November 2023 Examination (Master of Science in Mathematics - MSMT)		
College	School of Physical and Applied Sciences		
Programme	Master of Science in Mathematics		
	--		
Paper	PHI-622	Logical Reasoning and Critical Thinking	
Paper Head	SEA	Max Marks	40 Credits

4

Seat No	SEA Marks
22P041001	25
22P041005	36
22P041007	32.5
22P041008	29.5
22P0410011	33.5
22P0410012	30
22P0410014	36
22P0410018	33.75
22P0410019	30.5
22P0410021	34
22P0410022	27.5
22P0410023	38
22P0410030	31.25
22P0410036	33.5
22P0410037	35.5

Certified that all the sub components have been taken into account while finalising the above marks.

Prof. Sanyol
Parveen Kar
NAME OF EXAMINER

Parveen Kar
EXAMINER'S SIGNATURE



Date: 7/12/2023

N.B.NOTE : Department/College may kindly confirm that the above details are correct with reference to paper title, paper code and number of credits.

<< Absentees should be marked as 'A' (without quotes) >>
<< Carry forward of marks should be indicated as 'CF' (without quotes) >>