

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.	10 hours	
	2. Classical Square of Opposition of Propositions, Conversion, Obversion, and Contraposition.	10 hours	
	3. Form of Categorical Syllogism, Figure and Mood, Testing syllogism by rules.	15 hours	
	4. Venn Diagram Technique for testing syllogism.	15 hours	
	5. Analogies: Simple Analogy, Double Analogy, Triple Analogy.	5 hours	
	6. Determining the validity of inferences, statements and assumptions, statements, and conclusions.	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 McMohan, <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, Rinchart, 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).		

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Goa University

School of Sanskrit, Philosophy, & Indic Studies

TEACHING SCHEDULE

Academic year 2023-24 Sem. III & Sem. I w.e.f. 16/06/2023 and 26/06/2023 respectively

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	603/621NM	502, SD/621, NM	502, SD Dissert.	603 Dissert.
Tue	500,RN/601,NM	500,RN/601,NM	Lunch-Break	503, KT/624	503, KT/622, SD	622, SD Research	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 Dissert.	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 (DSC 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)
- SEM-I DSE. Courses):**
 PHI 521 Environmental Ethics- Ms Rajavi Naik (RN)
 PHI 522 Schools of Vedanta- Dr. Walter Menezes (WM)
- SEM III (RSE Courses):**
 PHI 600 Philosophy of Social Sciences- Prof. Koshy Tharakan (KT)
 PHI 601 Philosophy of Existentialism- Dr. Norma Menezes (NM)
 PHI 602 Philosophy of Martin Heidegger- Prof. Koshy Tharakan (KT)
 PHI 603 Academic Writing (SWAYAM Course)
- SEM II (GE. Courses):**
 PHI 621 Philosophy of Gandhi- Dr. Norma Menezes (NM)
 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)

cyf
 PD, Philosophy

Department of Philosophy
Logical Reasoning & Critical
 Paper (No.) Reasoning

GOA UNIVERSITY

ATTENDANCE SHEET

Teacher's Name S.D. Pai Vandekar

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 during the term / Months

Sl. No.	Name of the Students	Date of Lectures												Total	Remarks
		1	2	3	4	5	6	7	8	9	10	11	12		
1.	Pratik Prabhat Vaze	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
2.	Mohini Khavalekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
3.	Anaya Rege	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
4.	Pratima V. Khandekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
5.	Vijay Kumar Nataran	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
6.	Nitin Kataras	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
7.	Clayia Gensalves	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
8.	Veda Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
9.	Adar Fernandez	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
10.	Kutaba Madhakar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
11.	Pallavi Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
12.	Chetani D Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
13.	Akshata P Padurkar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
14.	Meera Narayanankutty	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
15.	Somnath U. Varganekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
16.	Sivani P. Navrojan	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
17.	Shubha V Chai	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
18.	Bhagyashree Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	12	
Signature of the Teacher															
Signature of the Head of Dept.															

NOTE: The students shall not be allowed to attend the lectures without the presence of their teachers / class

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

GOA UNIVERSITY

ATTENDANCE SHEET

Class : M.A. / M.COM / M.C.A. / M.M.S. / M.SC./Part II
 Academic Year _____
 Term I / II / Months _____
 Total number of lectures delivered by the teacher during the term / Months _____

Teacher's Name		Date of Lectures												Total	
		Time of Lectures													
		No. of lectures delivered													
Sl. No		Name of the Students													
1	Adnan J. Fernandes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
2	Ashleya Chari	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
3	Ashika Kuttar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
4	Asyaa Raje	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
5	Rajika Vaze	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
6	Pravara K. Khandekar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
7	Carina Gonsalves	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
8	Vin K. Nair	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
9	Arishi D. Patil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
10	Karshi Mahankar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
11	Pallavi V. Naik	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
12	Manish Khandekar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
13	Akanksha B. Pedurkar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
14	Vijaykumar Natre	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
15	Samrudhi U. Vagantem	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
16	Sarini Navvatar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
17	Neena Naganan Kutty	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12
18	Bhagyashree Nair	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12	12

Signature of the Teacher _____
 Signature of the Head of Dept. _____
 NOTE: All the students shall put their signatures against their respective names at every lecture / class

Department of ESDPS

Paper Applied Botany

Teacher's Name Prof. Pravin Kumar

GOA UNIVERSITY

ATTENDANCE SHEET

Class : M.A. / M.COM / M.Sc. / M.M.S. / M.Sc. / Part II
Academic Year 2023-24
Term I / II / Months
Total number of lectures delivered by the teacher during the term / Months

Teacher's Name		Date of Lectures														Total	Remarks		
		Time of Lectures																	
		No. of lectures delivered																	
		Name of the Students																	
Sr. No.	Name of the Students																		
1.	Meera Narayanan Kutty	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2.	Prasanna V. Khandekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3.	Prasanna P. Vaze	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4.	Clara da Silva	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5.	Angus A. S. Rege	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6.	Veda K. Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7.	Chetali Nait	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8.	Shivani Nandekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9.	Kritali Matankar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10.	Akashika D. Pednekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11.	Rush A R	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
12.	Hathuli Khandekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
13.	Nikhil Kulkarni	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
14.	Ujjwal Kumar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
15.	Samarudhi Uday Vaigankar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
16.	Pallavi V. Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
17.	Adan T. Penades	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
18.	Bhagyashree Nait	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
19.	Shubhi Chauhan	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
Signature of the Teacher																			
Signature of the Head of Dept.																			

NOTE: All the students shall not their attendance against their respective names at each lecture / class

18/07/23

NOTE: The students shall not be considered unless their respective names are written in the box.

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

GOA UNIVERSITY

ATTENDANCE SHEET

Class : M.A. / M.COM./M.C.A. / M.M.S. / M.SC./Part II
 Academic Year _____
 Term I / II / Months _____
 Total number of lectures delivered by the teacher

Teacher's Name		During the term / Months											
		25/07/23	25/07/23	26/07/23	27/07/23	28/07/23	29/07/23	30/07/23	31/07/23	01/08/23	02/08/23	03/08/23	04/08/23
Date of Lectures		25/07/23	25/07/23	26/07/23	27/07/23	28/07/23	29/07/23	30/07/23	31/07/23	01/08/23	02/08/23	03/08/23	04/08/23
Time of Lectures		2:30-3:30	3:30-4:30	4:30-5:30	5:30-6:30	6:30-7:30	7:30-8:30	8:30-9:30	9:30-10:30	10:30-11:30	11:30-12:30	12:30-1:30	1:30-2:30
No. of lectures delivered		15	16	17	18	19	20	21	22	23	24	25	26
Name of the Students													
Sr. No.													
1	Meera Narayankutty	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
2	Bhavana T. Khedekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	Poojita Rashant Vaze	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	Clarissa Sarina Gonsalves	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	Aryana A.S. Rege	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	Veda K. Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	Chetali Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	Shivani Navrekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	Kritali Matontkar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	Shraddha Padmakar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	Adarsh Fernandes	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
12	Shubha Chauri	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
13	Manish Khadkekar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
14	Nagkhan Narkar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
15	Somruchi Uday Vaigankar	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
16	Pallavi V. Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
17	Pragyaashvi Naik	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
18	Nikhil Kulkarni	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
19	Ravish A.R.	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
Signature of the Teacher													
Signature of the Head of Dept.													

NOTE: The students shall not be allowed to attend their respective classes at any time / place.

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	ISA	Max Marks	60	Credits
				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. Sanyal Pai
V. V. V. V.

EXAMINERS'S SIGNATURE
S. V. V. V.

Dean/Programme Director/ Principal's Signatu
[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		
	--	Logical Reasoning and Critical Thinking	4
Paper	PHI-622		40 Credits
Paper Head	SEA	Max Marks	

Seat No	SEA Marks
22P0410001	25
22P0410005	36
22P0410007	32.5
22P0410008	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. Sanyal
NAME OF EXAMINER

S. Venkatesh
EXAMINERS'S SIGNATURE

[Signature]
Dean/Programme Director/Principal'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) >>