Deccan Education Society's
Fergusson College (Autonomous), Pune
Course Outcomes (COs) 2019-20
Department of Philosophy
Programme: B.A. Logic (General)

F.Y. B.A. Semester I		
Title of the Course and Course Code	**Logical Reasoning – Indian and Western - LOG1101**	**Number of Credits: 03**
On completion of the course, the students will be able to:		**Bloom's Cognitive level**
CO1	Trace the stages of development of logic; comprehend the nature and scope of logic; identify the types and structure of reasoning.	1
CO2	Differentiate between propositions and sentences.	2
CO3	Compare the Nyaya theory of Anumana with Categorical syllogism.	3
CO4	Distinguish between valid and invalid forms of reasoning.	4
CO5	Evaluate arguments to identify errors in reasoning.	5
CO6	Build arguments using valid and invalid forms.	6
F.Y. B.A. Semester II		
Title of the Course and Course Code	**Elementary Symbol Logic - LOG1201**	**Number of Credits: 03**
On completion of the course, the students will be able to:		**Bloom's Cognitive level**
CO1	Identify various truth functions and symbolize propositions.	1
CO2	Explain the need for symbolic logic.	2
CO3	Assign truth values to truth functional compound propositions; Employ methods of decision procedure; apply the rules of inference on arguments.	3
CO4	Categorize propositions in accordance with their logical operators.	4
CO5	Demonstrate validity/invalidity of deductive arguments.	5
S.Y. B.A. Semester III		
Title of the Course and Course Code	**First Order Predicate Logic – LOG2301**	**Number of Credits: 03**
On completion of the course, the students will be able to:		**Bloom's Cognitive level**
CO1	Identify the limits of propositional logic and explain the need for predicate logic. Describe the significance of Critical thinking and its relevance to Logic.	1

CO2	Differentiate between propositions and propositional functions.	2
CO3	Symbolize propositions in predicate logic; Demonstrate validity and invalidity of arguments in predicate logic; Use quantification rules on arguments in predicate logic	3
CO4	Examine arguments to identify hidden premises.	4
CO5	Evaluate the traditional square of opposition critically.	5
CO6	Build arguments as instances of critical reasoning.	6

S.Y. B.A. Semester IV

Title of the Course and Course Code	Second Order Predicate Logic - LOG2401	Number of Credits: 03
On completion of the course, the students will be able to:		**Bloom's Cognitive level**
CO1	Differentiate between singly general and multiply general propositions	1
CO2	Translate complex multiply general propositions in symbolic form	2
CO3	Identify errors in application of revised quantification rules; apply the rules of identity	3
CO4	Analyze the structure of multiply general and relational propositions	4
CO5	Prove validity of arguments in second order predicate logic.	5
CO6	Compare and contrast deductive and inductive branches of reasoning	6

T.Y. B.A. Semester V

Title of the Course and Course Code	Logic: Methodology of Sciences (Natural and Social) – LOG3501	Number of Credits: 03
On completion of the course, the students will be able to:		**Bloom's Cognitive level**
CO1	Understand the significance of Logic in methodology of science	1
CO2	Recognise the characteristics of social sciences vis-a-vis those of natural sciences	2
CO3	Identify the different models of explanation in natural and social sciences	3
CO4	Compare and contrast the nature of laws in natural and social sciences	4
CO5	Critically evaluate the positivistic approach to social sciences	5
CO6	Take up a position with respect to the unity of method debate	6

T.Y. B.A. Semester VI		
Title of the Course and Course Code	**Traditions in Indian Logic - LOG3601**	**Number of Credits: 03**
On completion of the course, the students will be able to:		**Bloom's Cognitive level**
CO1	Explain the inter relation between Logic, Epistemology and Metaphysics in the domain of Indian philosophy.	1
CO2	Understand the various ways of classification of Anumana	2
CO3	Identify inductive and deductive elements in Indian logic.	3
CO4	Analyze the various concepts used in traditional Indian Logic	4
CO5	Engage in a comparative analysis of western and Indian elements in reasoning.	5
CO6	Critically evaluate Buddhist and Nyaya approaches to logical reasoning	6