

## COURSE WORK REASERCH COMPONENT

### ಕೋರ್ಸ್ ವರ್ಕ್ ರಿಸರ್ಚ್ ಕೋಂಪೋನಿಂಟ್

- Unit – 1 The meaning and interpretation of Research in Philosophy. The logical connection of research with invention and discovery.
- Unit – 2 The nature of Philosophical research – pure research construction of a Philosophical system or principle from un schematized philosophical ideas and trends.
- Unit – 3 The nature of the development and evolution of Philosophical research – Methodology of Dialectic and polemic. Historical examples from Indian Philosophy. Navya Nyaya Method for the search of definition : Case study of  
(i) The definition of svayamprakashtva in Citsukhi.  
(ii) Gangesh definition of vyapti.
- Unit – 4 Interpretation and evolution of a Philosophical Position or principle in contemporary reference. Case study: interpretation of Kant by Michel Friedman and Navya Nyaya by matilal.
- Unit – 5 Research in the area of definite knowledge – Logical syntax Hypothetico – deductive / Axiomatic approach Research in the foundation of set – theory and mathematics. Research in the methodology.
- Unit – 6 Applied Research - social / cultural and Historical interpretation – Folicauil, Derrida and Haber mass approaches – evolution – construction of Philosophical principles in contemporary Indian thoughts.

#### Books

- (1) Soloman E. Indian Dialectic.
- (2) Popper K. The Logic of Scientific discovery.
- (3) Friedman. M. Kant and exact Science.
- (4) Pass more J. Philosophical reasoning.
- (5) Matila! B. Language logic and Reality.
- (6) Matila! B. The docttine of negation in Navya – Nyaya.
- (7) Gangesh. Tattvacintamani.
- (8) Citsukha. Citsukhi.
- (9) Rosenbery. Contemporary readings in Philosophy of Science.
- (10) Carnap R. Meaning and necessity.
- (11) Carnap R. Logical foundation of probability.
- (12) Carnap R. The logical syntax of language

COURSE WORK ADVANCED COURSE COMPONENT

કોર્સ વર્ક એડવાન્સ કોર્સ કોમ્પોનેન્ટ

1. Primitive recursive functions-course of value recursion uniformity-Gödel's B-function number theoretic formalism.
2. Arithmatization of meta mathematics-Recursive meta mathematical definitions. Inductive and recursive definition.
3. General Recursive functions – formal calculation – Arithmatization of formalism.
4. The  $\mu$  - operator, enumeration, diagonal procedure.
5. Church's theorem, the generalized Gode's theorem.
6. Symmetric form of Godel's theorem.

Books:

- (1) Kleene S. C. (1952) Introduction to meta  
Mathematical.
- (2) Kleene S. C. (1952) Mathematical Logic
- (3) Manin Y. I. (1977) A course in Mathematical  
Logic.
- (4) Church A. (1952) Introduction to  
mathematical Logic.