UNIT I  INTRODUCTION  8
Components – Types – Ontological Commitments – Ontological Categories –
Philosophical Background -Sample - Knowledge Representation Ontologies – Top Level
Ontologies – Linguistic Ontologies – Domain Ontologies – Semantic Web – Need –
Foundation – Layers – Architecture.

UNIT II  LANGUAGES FOR SEMANTIC WEB AND ONTOLOGIES  12
Pragmatics - Traditional Ontology Languages – LOOM- OKBC – OCML - Flogic
Ontology Markup Languages – SHOE – OIL - DAML + OIL- OWL

UNIT III  ONTOLOGY LEARNING FOR SEMANTIC WEB  12
Taxonomy for Ontology Learning – Layered Approach – Phases of Ontology Learning –
Importing and Processing Ontologies and Documents – Ontology Learning Algorithms -
Evaluation

UNIT IV  ONTOLOGY MANAGEMENT AND TOOLS  8
Overview – need for management – development process – target ontology – ontology
mapping – skills management system – ontological class – constraints – issues. solution
– Development of Tools and Tool Suites – Ontology Merge Tools – Ontology based
Annotation Tools.

UNIT V  APPLICATIONS  5
Web Services – Semantic Web Services - Case Study for specific domain – Security
issues – current trends.

TOTAL  = 45

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