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1	Professional Ethics, Subramanian R. Oxford University Press, ISBN13: 978-0-19-808634-5 2011
2	Professional Ethics and Human Values, Chandrasekhar, M. S., Narasimhan, V.R. Senthilkumar PHI, ISBN: 978-81-203-4816-6, 2013
3	Constitution of India and Professional Ethics, Reddy, G.B. and Mohd. Suhaib, IK International Publishing House. ISBN: 81-89866-01-X, 2006
4	Introduction to Engineering Ethics (2nd Ed.) Martin, Mike W. and Roland Schingzinger McGraw-Hill ISBN 978-0-07-248311-6, 2010

1. Subject Code: **CO302**

Course Title: **Compiler Design**

2. Contact Hours : L: 3 T: 0 P: 2

3. Examination Duration (ETE) (Hrs.) : Theory 3 Hrs Practical 0

4. Relative Weightage : CWS 15 PRS 15 MTE 30 ETE 40 PR 0

5. Credits : 4

6. Semester : VI

7. Subject Area : DCC

8. Pre-requisite : Theory of Computation

9. Objective : To study the design of all the phases of compiler in detail.

10. Details of Course

S.No.	Contents	Contact Hours
1.	Introduction: Definition, Phases and Passes, FSM & RE's and their application to Lexical Analysis, Implementation of Lexical Analyzers, Lexical- Analyzer Generator, Lex – Compiler.	6

Page 69 / 272

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2.	Syntax Analysis: Formal Grammar and their application to Syntax Analysis, BNF Notation,, The Syntactic specification of Languages: CFG, Derivation and Parse Trees, Shift Reduce Parsing, Operator precedence parsing, top down Parsing, Predictive Parsers, LR Parsers, the canonical collection of LR(0)items, constructing SLR Parsing Tables, Constructing canonical LR Parsing tables and LALR parsing tables . An Automatic Parser Generator, YACC.	12
3.	Syntax Directed Translation: Syntax directed Translation Schemes, Implementation of Syntax directed translators, Intermediate Code, Postfix notation, Parse Trees and Syntax Trees, Three address Code, Quadruple & Triples, Translation of Assignment Statements, Boolean expressions, Control Statements, Array references in Arithmetic expressions , Procedure Calls , Declarations and Case statements Translations.	10
4.	Symbol Tables: Data Structure for Symbol Tables, representing scope information. Run Time Administration: Implementation of simple Stack allocation scheme, storage allocation in block structured language.	4
5.	Error detection and Recovery: Lexical phase errors, syntax phase errors, semantic errors and Error recovery techniques.	4
6.	Code Optimization: Loop optimization, the DAG representation of basic blocks, value numbers and Algebraic Laws, Global Data – Flow Analysis and Code generation.	6
TOTAL		42

11. Suggested Books

S.No.	Name of Books / Authors/ Publishers/ Year of Publication/ Reprint
Text Books	
1.	Aho,Ullman & Sethi, "Compiler Design", Addison Wesley,ISBN 81-7808-046-X,2004
Reference Books	
1.	D.M.Dhamdhare, "Compiler Construction – Principles & Practice"Macmillan India, ISBN 0333904060,2000

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