**USHA RAMA COLLEGE OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Lab Schedule**

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| **Course**: COMPILER DESIGN LAB | | | **Course code :** | | |
| **Academic year**: 2016-17 | | | **Semester** : I | | |
| **Class/ section** : III CSE -A | | | **Date of Commence of class work**: 13/6/16 | | |
| **Faculty Name** : K.SIRISHA,M.S.S.NAYAK,D.GANESH | | | **Date of End of class work** : 08/10/16 | | |
| S.NO | Date | Name of Experiment | | No . of Periods | Mode of Execution |
| 1 | 15/06/16 | 1. Design a lexical analyzer for given language and the lexical analyzer should ignore redundant spaces, tabs and new lines | | 3 | Through computer programming using turboc & putty softwares |
| 2 | 22/06/16 | 2. Simulate First and Follow of a Grammar. | | 3 |
| 3 | 29/06/16 | 3. Develop an operator precedence parser for a given language. | | 3 |
| 4 | 06/07/16 | 4. Construct a recursive descent parser for an expression. | | 3 |
| 5 | 13/07/16 | 5. Construct a LL(1) parser for an expression | | 3 |
| 6 | 20/07/16 | 6. Design predictive parser for the given language | | 3 |
| 7 | 27/07/16 | 7. Implementation of shift reduce parsing algorithm. | | 3 |
| 8 | 03/08/16 | 8. Design a LALR bottom up parser for the given language. | | 3 |
| 9 | 17/08/16 | 9. Implement the lexical analyzer using JLex, flex or lex or other lexical analyzer generating tools | | 3 |
| 10 | 24/07/16 | 10. Write a program to perform loop unrolling. | | 3 |
| 11 | 31/08/16 | 11. Convert the BNF rules into YACC form and write code to generate abstract syntax tree. | | 3 |
| 12 | 07/09/16 | 12. Write a program for constant propagation. | | 3 |
| 13 | 14/09/16 | Revision lab | | 3 |  |
| 14 | 21/09/16 | Revision lab | | 3 |  |
| 15 | 28/09/16 | **INTERNAL LAB** | | 3 |  |

**Signature of the HOD Signature of the Faculty**