Mathematics for Information Technology 2



| Evaluation(Rubric) |  | Actaremarcheve of | Unacoetabie Level of |
| :---: | :---: | :---: | :---: |
| Automaton | Exolan pushdown | Understand | Doessit undestand |
| Resulur reeresentation |  | Understand regular | Dosesnt tunderstand resular |
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| Relationshio with LLarming Outcomes |
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| C(1) Ablity to operate and administer the computer software and hardware |
| C(2) Ablityy to understand the operating system and to develop software to solve speccitic problems. |



| Course Plan |  |  |  |
| :---: | :---: | :---: | :---: |
| Semester 1 | Contents and Method of CourseWhatis compute | Goals | Rolated MCC |
| ${ }^{\text {st }}$ week |  | Explain comoutation |  |
|  |  |  |  |
| 2nd week | Bhary number / combinational cruit | ${ }^{\text {Decimal into binary exolain }}$ seaquencial loruit |  |
|  |  |  | v-0 |
|  |  |  |  |
| 3 d week | Combinational crouit/ Bookan alegbra |  |  |
|  |  | Combinational irauts and |     <br> $V-0$  7 36 <br> $V$ 7 86  |
|  |  | calcuite boolean aleebra | ${ }^{87}$ |
| 4th week | Sexuential Crouit | Understand Secuuential Circuit | V-0 $\quad 3 \quad 44$ |
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| 5 th week | holday |  |  |
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| 6 6th week | Problen formulation | Undestand formulation and $_{\substack{\text { Problems }}}$ | V-0 <br> V <br> $\mathrm{V}-\mathrm{O}$ |
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| 7 T week | Automaton | Understand Automaton | V-0 <br> V <br> V 0 |
|  |  |  | - $7 \quad 92$ |
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| 8th week | Review Micterm exam |  |  |
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| 9th week | Miderm exam |  |  |
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| 10 th week | Peeular representation | Undestand remeseentation |  |
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|  |  |  |  |
| 11 th week | NEADFA | Understanding NFAD FFA |  |
|  |  |  | 0   <br> $V-0$   |
|  |  |  |  |
| 12th week | Transtorm NFA to DFA | Understanding Transform NFA to DFA |  |
|  |  |  |  |
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| 13th week | Minimal form | Understanding Minimal forn | $\mathrm{V}-0$ 5  |
|  |  |  | v-0 7 7 92 |
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| 144. week | Pushcown automaton 1 | Understancine pushdown <br> free prammar <br> free grammar |  |
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| 15th week | Pushdown automaton 2 | make pushdoun automaton |  |
|  |  |  | v-O 7 7 92 |
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| 16th week | Turing Machine | Understand and explain <br> Turing Machine | $\mathrm{V}-\mathrm{O}$ 5 |
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| 174. week | Reverew Fina Exam |  |  |
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| 18th week | Final Exam |  |  |
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| 19th week | Wrap-up |  |  |
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| 2 Oth week |  |  |  |
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