**SRM INSTITUTE OF SCIENCE AND TEHCNOLOGY**

**DEPARTMENT OF COMPUTING TECHNOLOGIES**

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| SlNo | Title | Link |
| 1 | Introduction to Turing Machines | https://youtu.be/aiwO9CWRhpU |
| 2 | TM Problem 1 Part 1 | <https://youtu.be/6cmaDlIuD6I> |
| 3 | TM problem 1 Part 2 | https://youtu.be/UpAv5FSkAMQ |
| 4 | TM problem 2 | <https://youtu.be/FkNeGvvCibo> |
| 5 | TM problem 3 | <https://youtu.be/ouEgjs0-pUE> |
| 6 | TM for 1s Complement | <https://youtu.be/F3f33JI42vY> |
| 7 | TM for 2s Complement | <https://youtu.be/M0b8bgK_Nyg> |
| 8 | TM for x+y | <https://youtu.be/Z66Uhu9Ule0> |
| 9 | TM for x-y | https://youtu.be/iHsmSAUSGZw |
| 10 | Variations of TM | <https://youtu.be/V5sjfpeKqxc> |
| 11 | Multitape TM problem 1 | <https://youtu.be/Np920l4HL1I> |
| 12 | Multitape TM problem 2 | https://youtu.be/PC-hwWXjMD0 |
| 13 | Multihead TM problem 1 | <https://youtu.be/b8z2r6tzFS8> |
| 14 | Universal Turing Machine | <https://youtu.be/oJ0ml1Cb6LU> |
| 15. | Recursive and recursively enumerable languages | <https://youtu.be/4A11t6OTqmU> |
| 16 | Turing Machines to PCP-Part 1 | <https://youtu.be/h5rafOQQ9IM> |
| 17 | Turing Machines to PCP-Part 2 | <https://youtu.be/dvbxFxO9UC4> |
| 18 | Church -Turing Thesis | <https://youtu.be/yyDuG8O11xc> |
| 19 | Post Correspondence problem | <https://youtu.be/sH0_L_cguJA> |
| 20 | Modified PCP | https://youtu.be/QdmUxPvD\_6s |
| 21 | Rice theorem | <https://youtu.be/9pjRPwq15S8> |
| 22 | TM for substring problem | <https://youtu.be/nscUtDkIfec> |
| 23 | TM for accepting string of even length | <https://youtu.be/icgbuDf6ndg> |
| 24 | University Exam questions |  |
| 25 | University Exam questions |  |
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**FLA CT3-Details of YOUTUBE**