

**VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**Course Content Developed**

| S.No | Name of the Faculty | Course Title  | You tube Video Link   |
|------|---------------------|---|---|
| 1.   | Dr V.LATHA JOTHI    | Optimal Binary Search Trees                             | <a href="https://youtu.be/g20bLO7ZHSs">https://youtu.be/g20bLO7ZHSs</a>   |
| 2.   | Dr V.LATHA JOTHI    | Warshall Algorithm                                      | <a href="https://youtu.be/61SyR9xTwEw">https://youtu.be/61SyR9xTwEw</a>   |
| 3.   | Dr V.LATHA JOTHI    | Floyds' Algorithm                                       | <a href="https://youtu.be/fgwZYGUvCac">https://youtu.be/fgwZYGUvCac</a>   |
| 4.   | Dr V.LATHA JOTHI    | Finding the Binomial Coefficient using Dyna Programming | <a href="https://youtu.be/SS_EB3AqV_0">https://youtu.be/SS_EB3AqV_0</a>   |
| 5.   | Dr V.LATHA JOTHI    | Knapsack Problem  | <a href="https://youtu.be/SS_EB3AqV_0">https://youtu.be/SS_EB3AqV_0</a>   |
| 6.   | Dr V.LATHA JOTHI    | Backtracking  | <a href="https://youtu.be/-Nz94u259uc">https://youtu.be/-Nz94u259uc</a>   |
| 7.   | Dr V.LATHA JOTHI    | Memory Functions  | <a href="https://youtu.be/CIAETZQC6JA">https://youtu.be/CIAETZQC6JA</a>   |
| 8.   | Dr V.LATHA JOTHI    | Converting infix Expression to Postfix Expres           | <a href="https://www.youtube.com/watch?v=OauHaw">https://www.youtube.com/watch?v=OauHaw</a>                             |
| 9.   | Dr V.LATHA JOTHI    | Implementation of Stack using Linked List               | <a href="https://youtu.be/WadqL4UfVcc">https://youtu.be/WadqL4UfVcc</a>   |
| 10.  | Dr V.LATHA JOTHI    | Array implementation of List                            | <a href="https://www.youtube.com/watch?v=Mdgvn0">https://www.youtube.com/watch?v=Mdgvn0</a>                             |
| 11.  | Dr V.LATHA JOTHI    | Inserion into a Linked List                             | <a href="https://youtu.be/6nASRX3CysY">https://youtu.be/6nASRX3CysY</a>   |
| 12.  | Dr V.LATHA JOTHI    | To find the Factorial of a number using C pro           | <a href="https://youtu.be/IJ_qV3tPG3g">https://youtu.be/IJ_qV3tPG3g</a>   |
| 13.  | Dr V.LATHA JOTHI    | Generating Fibonacci series using C program             | <a href="https://youtu.be/wzGLJ52OiCQ">https://youtu.be/wzGLJ52OiCQ</a>   |
| 14.  | Dr.S.KAYALVILI      | Fayols 14 Principles of Management                      | <a href="https://www.youtube.com/watch?v=HNch">https://www.youtube.com/watch?v=HNch</a>                                 |
| 15.  | Dr.S.KAYALVILI      | Managerial Roles  | <a href="https://www.youtube.com/watch?v=vpO2ATQ">https://www.youtube.com/watch?v=vpO2ATQ</a>                           |
| 16.  | Ms.M.MOHANASUNDA    | Parsing Techniques                                      | <a href="https://www.youtube.com/watch?v=V3O-eYvjAFo&amp;t=9s">https://www.youtube.com/watch?v=V3O-eYvjAFo&amp;t=9s</a> |
| 17.  | Mr.S.VIVEKANANDAN   | Software Testing Life Cycle                             | <a href="https://youtu.be/KtwPWXJdyng">https://youtu.be/KtwPWXJdyng</a>   |
| 18.  | Mr.S.VIVEKANANDAN   | Software Quality, Quality Assurance, Quality Control    | <a href="https://youtu.be/VAuiNkRTtEE">https://youtu.be/VAuiNkRTtEE</a>   |
| 19.  | Mr.S.VIVEKANANDAN   | Spiral Model of SDLC                                    | <a href="https://youtu.be/z_TVcdwLKMq">https://youtu.be/z_TVcdwLKMq</a>   |
| 20.  | Mr.S.VIVEKANANDAN   | Types Software Testing                                  | <a href="https://youtu.be/sLcywBqi95s">https://youtu.be/sLcywBqi95s</a>   |
| 21.  | Mr.S.VIVEKANANDAN   | V Model ia Software Testing                             | <a href="https://youtu.be/eZrziCDZehM Wz6o">https://youtu.be/eZrziCDZehM Wz6o</a>                                       |
| 22.  | Mr.S.VIVEKANANDAN   | Water fall Model  | <a href="https://youtu.be/ZwrFqjjWS5U">https://youtu.be/ZwrFqjjWS5U</a>   |

|     |                   |   |   |
|-----|-------------------|---|---|
| 22. | Ms.K.MOHANAPRIYA  | Huffman coding                              | <a href="https://www.youtube.com/watch?v=NIX94M">https://www.youtube.com/watch?v=NIX94M</a>           |
| 23. | Ms.K.MOHANAPRIYA  | lempel ziv encoding                         | <a href="https://www.youtube.com/watch?v=FkhvQE">https://www.youtube.com/watch?v=FkhvQE</a>           |
| 24. | Ms.K.MOHANAPRIYA  | Phases of compiler                          | <a href="https://youtu.be/lKkJAq6R1_E">https://youtu.be/lKkJAq6R1_E</a>                               |
| 25. | Ms.D.LAVANYA      | Conversion of CFG to PDA                    | <a href="https://youtu.be/Cul6y5MMCOk">https://youtu.be/Cul6y5MMCOk</a>                               |
| 26. | Ms.D.LAVANYA      | Conversion of PDA to CFG                    | <a href="https://youtu.be/fUajZVn3f2E">https://youtu.be/fUajZVn3f2E</a>                               |
| 27. | Ms.D.LAVANYA      | Turing Machine problem                      | <a href="https://youtu.be/SdzqEp5VQP0">https://youtu.be/SdzqEp5VQP0</a>                               |
| 28. | Ms.D.LAVANYA      | Turing machine problem for subtraction      | <a href="https://www.youtube.com/watch?v=dMx3YXI">https://www.youtube.com/watch?v=dMx3YXI</a>         |
| 29. | Ms.D.LAVANYA      | Turing machine for addition                 | <a href="https://www.youtube.com/watch?v=qXLYejdJSHk">https://www.youtube.com/watch?v=qXLYejdJSHk</a> |
| 30. | Ms.D.LAVANYA      | Turing Machine problem 2                    | <a href="https://youtu.be/gWPIFUYgPYY">https://youtu.be/gWPIFUYgPYY</a>                               |
| 31. | Ms.S.SUBATHRA     | Conversion of PDA to CFG                    | <a href="https://youtu.be/1YuH21SAUhY">https://youtu.be/1YuH21SAUhY</a>                               |
| 32. | Ms.S.SUBATHRA     | Conversion of CFG to PDA                    | <a href="https://youtu.be/nqYFQLjyOJO">https://youtu.be/nqYFQLjyOJO</a>                               |
| 33. | Ms.S.SUBATHRA     | Rules for conversion of CFG to PDA          | <a href="https://youtu.be/6ovwRe1au14">https://youtu.be/6ovwRe1au14</a>                               |
| 34. | Ms.S.SUBATHRA     | Turing machine -Introduction                | <a href="https://youtu.be/vuIPcoeu8hQ">https://youtu.be/vuIPcoeu8hQ</a>                               |
| 35. | Ms.S.SUBATHRA     | Multi tape Turing machine                   | <a href="https://youtu.be/9QXrO9EHd8Y">https://youtu.be/9QXrO9EHd8Y</a>                               |
| 36. | Ms.S.SUBATHRA     | Multiple track turing machine problems      | <a href="https://youtu.be/ofkoc55tx60">https://youtu.be/ofkoc55tx60</a>                               |
| 37. | Ms.S.VISHNUPPRIYA | C program for passing Structure to Function | <a href="https://www.youtube.com/watch?v=8AL8bZ8">https://www.youtube.com/watch?v=8AL8bZ8</a>         |
| 38. | Ms.S.VISHNUPPRIYA | File opening and closing in C               | <a href="https://www.youtube.com/watch?v=NqjZJY">https://www.youtube.com/watch?v=NqjZJY</a>           |
| 39. | Ms.S.VISHNUPPRIYA | C program for Structure using Pointer       | <a href="https://www.youtube.com/watch?v=dMx3YXI">https://www.youtube.com/watch?v=dMx3YXI</a>         |
| 40. | Ms.S.NITHYA       | Deployment and component diagram            | <a href="https://youtu.be/TRjKqHhe-kg">https://youtu.be/TRjKqHhe-kg</a>                               |
| 41. | Ms.S.NITHYA       | StateDiagram                                | <a href="https://youtu.be/lhRZELiT4Vk">https://youtu.be/lhRZELiT4Vk</a>                               |
| 42. | Ms.S.NITHYA       | Applying Design Pattern                     | <a href="https://youtu.be/2YG31UxD7go">https://youtu.be/2YG31UxD7go</a>                               |
| 43. | Ms.S.NITHYA       | High cohesion and controller                | <a href="https://youtu.be/Rp9MjNrjs4s">https://youtu.be/Rp9MjNrjs4s</a>                               |
| 44. | Ms.S.PONNI        | Android Testing                             | <a href="https://youtu.be/yM6_MC2SUOw">https://youtu.be/yM6_MC2SUOw</a>                               |

|     |                    |   |   |
|-----|--------------------|---|---|
| 45. | Ms.S.PONNI         | Publishing an App   | <a href="https://youtu.be/b5xr5aVtZBg">https://youtu.be/b5xr5aVtZBg</a>   |
| 46. | Ms.S.PONNI         | Mapping Design to Code  | <a href="https://youtu.be/196HGRpAMTQ">https://youtu.be/196HGRpAMTQ</a>   |
| 47. | Ms.S.PONNI         | Design Patterns -1  | <a href="https://youtu.be/teD9N9860hM">https://youtu.be/teD9N9860hM</a>   |
| 48. | Ms.S.PONNI         | Design Patterns - 2   | <a href="https://youtu.be/0yTG7dWA_Ns">https://youtu.be/0yTG7dWA_Ns</a>   |
| 49. | Ms.S.PONNI         | Multimedia in Android   | <a href="https://youtu.be/FEiOQcMM-IU">https://youtu.be/FEiOQcMM-IU</a>   |
| 50. | Ms.S.PONNI         | Component Diagram   | <a href="https://youtu.be/3YawFf3j_oY">https://youtu.be/3YawFf3j_oY</a>   |
| 51. | Ms.S.PONNI         | State Diagram   | <a href="https://youtu.be/lhRZELiT4Vk">https://youtu.be/lhRZELiT4Vk</a>   |
| 52. | Mr.R.SATHYARAJ     | Computer Architecture-First version of multiplication algorithm | <a href="https://youtu.be/-kBfxuBTRz8">https://youtu.be/-kBfxuBTRz8</a>   |
| 53. | Mr.R.SATHYARAJ     | Computer Architecture-Final version of multiplication algorithm | <a href="https://youtu.be/Hs0RtWuyls">https://youtu.be/Hs0RtWuyls</a>   |
| 54. | Mr.A.P GOPU        | Encryption and Decryption Using RSA Algorithm                   | <a href="https://youtu.be/n1BIJUQ89Vg">https://youtu.be/n1BIJUQ89Vg</a>   |
| 55. | Mr.A.P GOPU        | Solving problems based on chinese remainder theorem             | <a href="https://youtu.be/FeveVDsw0ZQ">https://youtu.be/FeveVDsw0ZQ</a>   |
| 56. | Ms.S.KEERTHIKA     | Waterfall model   | <a href="https://youtu.be/pIs5zlsz9pw">https://youtu.be/pIs5zlsz9pw</a>   |
| 57. | Ms.S.KEERTHIKA     | functional units in a computer                                  | <a href="https://youtu.be/v5KTjrEooM0">https://youtu.be/v5KTjrEooM0</a>   |
| 58. | Ms.S.KEERTHIKA     | phases of software testing                                      | <a href="https://youtu.be/ukX1F-fynog">https://youtu.be/ukX1F-fynog</a>   |
| 59. | Dr.M.DEEPA         | Introduction to Python Programming                              | <a href="https://youtu.be/1gXQoajAi8k">https://youtu.be/1gXQoajAi8k</a>   |
| 60. | Dr.M.DEEPA         | Python Programming- Data types                                  | <a href="https://youtu.be/Mi6h_CeBt9A">https://youtu.be/Mi6h_CeBt9A</a>   |
| 61. | Ms.M.PRIYAVARSHINI | Python DataTypes  | <a href="https://youtu.be/H_cYzc9iNNU">https://youtu.be/H_cYzc9iNNU</a>   |
| 62. | Ms.M.PRIYAVARSHINI | Operators in Python Programming                                 | <a href="https://youtu.be/Kq5e0EO6Zas">https://youtu.be/Kq5e0EO6Zas</a>   |
| 63. | Ms.M.PRIYAVARSHINI | Identifiers in Python Programming                               | <a href="https://youtu.be/ck1xxHLrn3I">https://youtu.be/ck1xxHLrn3I</a>   |
| 64. | Ms.M.THILAGARANI   | Classes and Object  | <a href="https://youtu.be/D-Jh3D-nU5c">https://youtu.be/D-Jh3D-nU5c</a>   |
| 65. | Ms.I.NIVETHA       | Java-Collections  | <a href="https://youtu.be/47aRT6C-dsU?si=1lwZaD_HII42SIOC">https://youtu.be/47aRT6C-dsU?si=1lwZaD_HII42SIOC</a>   |
| 66. | Ms.D.YAMUNATHANGAM | Aggregate functions in MySQL                                    | <a href="https://youtu.be/tJBPaYuF0hI">https://youtu.be/tJBPaYuF0hI</a>   |
| 67. | Ms.D.YAMUNATHANGAM | Join operations in MYSQL  | <a href="https://youtu.be/aWbbixJoQ8M">https://youtu.be/aWbbixJoQ8M</a>   |
| 69. | Mr.S.SENTHILNATHAN | Theory of Computation   | <a href="https://youtu.be/BfXqGfQyFg8">https://youtu.be/BfXqGfQyFg8</a>   |
| 70. | Mr.S.SENTHILNATHAN | Information Retrieval   | <a href="https://youtu.be/WhF5FB5iBtI">https://youtu.be/WhF5FB5iBtI</a>   |
| 71. | Dr V KAVITHA       | Problem Solving Methods   | <a href="https://youtu.be/0cIGj2jmZKo?si=6Y-NAy58_--iWCTu">https://youtu.be/0cIGj2jmZKo?si=6Y-NAy58_--iWCTu</a>   |
| 72. | Dr V KAVITHA       | Uninformed Search Strategies                                    | <a href="https://youtu.be/F_nKloVoZe8?si=RDA NRm5AV-LcTluY">https://youtu.be/F_nKloVoZe8?si=RDA NRm5AV-LcTluY</a> |