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| 1. | | . . | | - ; ; - - | 66,75 | 0,076 |
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| 3. | | .. | | ;; - | 50,75 | 0,058 |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
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| 12. | - | .. | | - ;; - ;; | 107 | 0,122 |
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| 16. | - | .. | | - ;; - ;; | 85,5 | 0,097 |
| 17. | - | .. | | - ;; - ;; | 50,75 | 0,058 |
| 18. | | .. | | - ;; - ;; | 50,75 | 0,058 |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
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| 27. | | .. | | - - ;; ;; | 151 | 0,172 |
| 28. | - | .. | | - - ;; ;; | 50,5 | 0,057 |
| 29. | - - | .. | | - - ;; ;; | 50,5 | 0,057 |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
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| 31. | - | .. | | - ;; - ;; | 18,75 | 0,021 |
| 32. | - - - | .. | | - ;; - ;; | 132,8 | 0,151 |
| 33. | - | .. | | - ;; - ;; | 66,4 | 0,075 |
| 34. | - - - - | .. | | - - ;; - - ;; | 66,4 | 0,075 |
| 35. | - - - - | .. | | - - ;; - - ;; | 68 | 0,077 |
| 36. | - | .. | | - ;; - ;; | 118,5 | 0,135 |
| 37. | - | . | | - ;; - ;; | 52 | 0,059 |

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| 38. | - - - | . , | | - ; ; - ; ; | 50,75 | 0,058 |
| 39. | - | . . | | - ; ; - ; ; | 160,25 | 0,182 |
| 40. | - - - | . . | | - ; ; - ; ; - ; ; | 228,25 | 0,259 |
| 41. | - | . . | | - ; ; - ; ; | 69,5 | 0,079 |
| 42. | - - - | . | | - ; ; - ; ; | 50,75 | 0,058 |
| 43. | | . , | | - ; ; - ; ; | 69,5 | 0,079 |
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| 46. | - - | . . | | - ; ; - ; ; | 104,25 | 0,118 |
| 47. | | . . | | - ; ; - ; ; | 102,5 | 0,116 |
| 48. | - - | . . | | - ; ; - ; ; | 53,5 | 0,061 |
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| 3. | | « », . | | 40 (1983) | 0,22 |
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| 11. | , , « » , | 86,1 |
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| 1. | 1. .1 | MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | , 112- |
| 2. | 1. .2 | MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | , 112- |

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| 3. | 1. .3 | <p>MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901</p> | , 106/5, 2 |
| 4. | 1. .4 | <p>MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901</p> <p>6402/176500/ - 13.02.2015 ; 23.06.2005</p> | , 112- |
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| 8. | 1. .7 | , (402/) (404/) (405/) (410/) | , 112- |

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| 10. | 1. .9 | <p>MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901</p> | , 1 |

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| 15. | 1. .14.1 | <p> , : : , , - ; ; , ; () ; ; ; ; (,) ; ; , (; - , , , ,). MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 </p> | , 112- |
| 16. | 1. .14.2 | , | , 112- |

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| 17. | 1. .15.1 | <p> , : : , - : ; ; - ; ; MS Office, Windows / Microsoft Open License 61010664, </p> | , 112- |

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| 21. | 1. .17 | <p> , , - - - - : - : , , - : - : , , - MS Office, Windows / - Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 -3D 16. -10-00646 - . 44867/VRN3 19.12.2013 . </p> | , 1 |

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| | | Mathcad 15. 21 14.12.2010 . 8A1462152 . | |
| 22. | 1. .18 | <p>Mathcad 15/ 8A1462152</p> <p>MS Office, Windows /</p> <p>Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901</p> | , 1 |
| 23. | 1. .19 | <p>Mathcad 15/ 8A1462152</p> <p>« »</p> <p>-21</p> | , 116 |

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| 24. | 1. .20 | <p>MS Office, Windows /</p> <p>Microsoft Open License 61010664,</p> <p>60979359, 61316870, 45560005, 45341392, 44964701,</p> <p>49066437, 48248804, 49487340, 43925361, 44544975,</p> <p>43239932, 42882586, 46733190, 45936776, 46019880,</p> <p>47425744, 47869741, 60102643, 41875901</p> | , 112- |
| 25. | 1. .21 | <p>2 1,5 1,7 1</p> <p>(1 .); (-209;</p> <p>-8;</p> | , 1 |

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| 26. | 1. .22 | , , - « » : : , , : -1, -1 -2, , - , , MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | , 112- |
| 27. | 1. .23 | , : , - :) (- : : , , : : 1. - 11. | , 116 |

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| | | Autodesk Education Master Suite 2010 - 2012 35-03/75 17.06.2011 AutoCAD Inventor Professional Suite 2010-2011 110000204293 11580/VRN3/35-03/120 26.06.2009 Mathcad 15 8A1462152 | |
| 28. | 1. .24 | , : : MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 OpenOffice / Kaspersky Endpoint Security – Russian Edition 1FB6161017094054183141 – _126201-2016 17.10.2016 . 17.10.2016 24.10.2018 | , 1 |
| 29. | 1. .25 | , « : : : (| , 116 |

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| 30. | 1. .26 | , , , - - : (,), 1000 , 4 25 | , 112- |
| 31. | 1. .27 CALS- | , , - : : T-FLEX - 0DE36697 53- / -2009/35-03/105 10.06.2009 . 2076 « - » - - 35-03/76 13.04.2009 « » -15- 00464 -15-00464 13.11.2015 | , 1 |
| 32. | 1. . .1 | - , - (309/) : | , 1 |

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| 33. | 1. . .2 - | <p style="text-align: center;">:</p> <p style="text-align: center;">:</p> <p style="text-align: center;">DMG MORI CTX 310 Ecoline; -</p> <p style="text-align: center;">BF46 CNC PRO, 25-</p> <p>50 , 50-75 , -</p> <p>0,01 ,</p> <p>MS Office, Windows / -</p> <p style="text-align: center;">Microsoft Open License 61010664,</p> <p>60979359, 61316870, 45560005, 45341392, 44964701,</p> <p>49066437, 48248804, 49487340, 43925361, 44544975,</p> <p>43239932, 42882586, 46733190, 45936776, 46019880,</p> <p>47425744, 47869741, 60102643, 41875901</p> | , 1 |

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| 36. | 1. . .5 | MS Office, Windows / - Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 OpenOffice / - -3D 16 -10-00646 - 44867/VRN3 19.12.2013 . AutoCAD 2014,2015, 2016, 2017, 2018 - Autodesk Autodesk #110001637279 T-FLEX 0DE36697 53- / -2009/35-03/105 10.06.2009 . Autodesk Education Master Suite 2010 - 2012 - 35-03/75 17.06.2011 AutoCAD Inventor Professional Suite 2010-2011 110000204293 11580/VRN3/35-03/120 26.06.2009 Mathcad 15 8A1462152 | . . . , 116 |
| 37. | 1. . .6 | , : : , , | . . . , 1 |

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| 38. | 1. . .7 - : - : | MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | . . . , 1 , - , - |
| 39. | 1. . .8 - : - : 1. - 2. . 3. - | MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | . . . , 116 , - (-) : : , , : 1. - 2. . 3. - |

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| 40. | 1. . .9 - | <p>, , -) : : , , : 1. - 11. 2. - 21. 3. - 1 611 .</p> | , 116 |

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| 41. | 1. . .10 - | , , - - - - - : : : , , MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | , 1 |
| 42. | 1. . .11 - | , , - : : , , | , 1 |

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| | | <p>« » . 116, . 310/</p> <p>: : :</p> <p>MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901</p> | |
| 48. | 1. . .2.2 - | <p>« » . 116, . 310/</p> <p>: : :</p> <p>MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901</p> | . , . , 116 |
| 49. | 1. . .3.1 - | | . , . , 116 |

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| | | <p>(309/)</p> <p>:</p> <p>:</p> <p>:</p> <p>. DMGMORICTX 310 Ecoline;</p> <p>BF46 CNCPRO, 25- 50</p> <p>, 50-75 , -</p> <p>,</p> <p>0,01 ,</p> <p>-3D -10-00646</p> <p>SinuTrain for SINUMERIK Operate V4.7</p> <p>Mastercam 2018</p> | |
| 50. | 1. . .3.2 | <p>(309/)</p> <p>:</p> <p>:</p> <p>:</p> <p>. DMGMORICTX 310 Ecoline;</p> <p>BF46 CNCPRO, 25- 50</p> <p>, 50-75 , -</p> <p>,</p> <p>0,01 ,</p> <p>-3D -10-00646</p> <p>SinuTrain for SINUMERIK Operate V4.7</p> <p>Mastercam 2018</p> | , 116 |
| 51. | 1. . .4.1 | , | , 1 |

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| 53. | 1. . .5.1 | MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 Mathcad 15/ 8A1462152 | , 1 |
| 54. | 1. . .5.2 | MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 Mathcad 15/ 8A1462152 | , 1 |
| 55. | 1. . .5.3 | | |

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| 56. | 1. . .6.1 | , : : : : MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 Mathcad 15/ 8A1462152 | , 1 |
| 57. | 1. . .6.2 | - , , - - - - | , 1 |

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| 58. | <p>2. .1</p> | <p>MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901</p> | , 1 |
| 59. | <p>2. .1</p> | | , 1 |

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| 60. | 2. .2 | <p> . . : , : : - » , (Wi-Fi) : , , MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, </p> | . , . , 1 |

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| 63. | 3. .1 | , , : : : , , MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 Mathcad 15/ 8A1462152 AutoCAD 2009-2011/ 110000006741 | , 1 |
| 64. | 3. .2 | , , : : : , , MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 Mathcad 15/ 8A1462152 AutoCAD 2009-2011/ 110000006741 | , 1 |

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| 65. | .1 | : MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | , 112- |
| 66. | .2 | : MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | , 112- |
| 67. | .3 | : MS Office, Windows / Microsoft Open License 61010664, 60979359, 61316870, 45560005, 45341392, 44964701, 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | , 106/5, 2 |

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| 68. | | <p>()</p> <p>:</p> <p>:</p> <p>- « »</p> <p>,</p> <p>(Wi-Fi)</p> <p>MS Office, Windows /</p> <p>Microsoft Open License 66426830</p> | <p>, , 112-</p> |
| 69. | | <p>(.333/)</p> <p>:</p> <p>:</p> <p>- « »</p> <p>,</p> <p>(Wi-Fi)</p> <p>MS Office, Windows /</p> <p>Microsoft Open License 66426830</p> | <p>, , 112-</p> |

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| 1. | SolidWorks 2013 | - | 100 | 749982 - 44867/VRN3 19.12.2013 . | - - |
| 2. | SWR_ | - | 10 | 2076 - 35-03/76 13.04.2009 | |
| 3. | 16 -3D - | - | 50 | -10-00646 44867/VRN3 19.12.2013 . | - - |
| 4. | 19 -3D - | - | 50 | -10-00646 172 07.10.2019 . | - - |
| 5. | 2014 - - | - | 10 | -15-00464 -15-00464 13.11.2015 . | - - |
| 6. | 2018.1 - - | - | 10 | -15-00464 -15-00464 07.10.2019 . | - - |
| 7. | T-FLEX : T-FLEX CAD 3D, T-FLEX - , T-FLEX 3D, T-FLEX NC Tracer 3D, T-FLEX NC Tracer 5D, T- FLEX (- +) ₂ , T-FLEX () , T-FLEX (-) ₂ , T-FLEX (-) ₂ , T-FLEX | - | 20 | 00005221 - 53- / - 2009/35-03/105 10.06.2009 . | - - |
| 8. | SiemensNX | - | 11 | - | - |

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| 9. | AutoCAD 2020, 2021, 2022 | - | 3000 | Autodesk - Autodesk #110003718847 | 2D- 3D- |
| 10. | Auto- CAD_Mechanical 2021, 2022 | - | 3000 | Autodesk - Autodesk #110003719242 | 3D- - |
| 11. | Inventor Professional 2020, 2021, 2022 | - | 3000 | Autodesk - Autodesk #110003719461 | 3D- - |
| 12. | Autodesk Education Master Suite 2010 - 2012 | - | 125 | - 35-03/75 17.06.2011 | - - |
| 13. | AutoCAD 2008- 2011 | - | 40 | 110000006741 11580/VRN3/35- 03/120 26.06.2009 . | - - |
| 14. | AutoCAD Inventor Professional Suite 2010-2011 | - | 40 | 110000204293 11580/VRN3/35- 03/120 26.06.2009 . | - - |
| 15. | ArchiCAD 21 | - | - | 1 « » () « » 01.02.2018 | () - GRAPHISOFT - |
| 16. | SCAD Office S64max | - | 20 | 14847 -2017-01428 20.12.2017 . | SCAD, - - - |
| 17. | - | - | 20 | 066557 | - - |

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|---------------------------------------|---|-----|---|--|
| | - (STARK ES 2018 R1) | | | -2017-01428 20.12.2017 . | - , , (, ,) , , . |
| 18. | EdgeCAM for Educational 2009 | - | 10 | - 10 35-03/298 14.12.2009 . | - |
| 19. | 1 : 8.1 | - | 50 | 8922549 - 217 08.11.2013 . | |
| 20. | CodeGear RAD Studio 2007 Professional | - | 30 | 32954 - 35-03/161 19.08.2008 . | (Delphi, Delphi.NET ++ Buider) |
| 21. | Mathcad 15 | - | 30 | 8A1462152 21 14.12.2010 . | |
| 22. | Maple 14 | - | 15 | 744750 - 35-03/175 35-03/175 21.12.2010 .. | |
| 23. | ANSYS Academic Teaching Mechanical | - | 5 | 616773 144 23.08.2019 . | |
| 24. | MATLAB R2013b | - | 100 | 537913 - 43759/VRN3 07.11.2013 . | |
| 25. | - MATLAB Simulink | - | 10 | 537913 - 43759/VRN3 07.11.2013 . | Simulink - |
| 26. | - MATLAB Optimization | - | 10 | 537913 - 43759/VRN3 07.11.2013 . | MATLAB Optimization - - |
| 27. | MATLAB Global Optimization | - | 10 | 537913 - 43759/VRN3 07.11.2013 . | MATLAB Global Optimization - - , - - |
| 28. | - MATLAB Statistics | - | 10 | 537913 - 43759/VRN3 07.11.2013 . | MATLAB Statistics - |

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|---|---|----|--|--|
| | Generator | | | 43759/VRN3 07.11.2013 . | MATLAB, - - MATLAB, - , - - : HTML, PDF, RTF, DOC XML |
| 40. | MATLAB Simu- link Report Genera- tor | - | 10 | 537913 - 43759/VRN3 07.11.2013 . | Simulink Report Generator - Simulink, - - Simulink Stateflow |
| 41. | « » .3.0, « » | - | 20 | (-) 20 35- 03/174/12152/VRN3 10.08.2009 . | - |
| 42. | « - RPS - 5 - » | - | - | 08-235/35- - 03/240 25.12.2008 . | - |
| 43. | - LabVIEW | - | - | 35-03/231 - 22.12.2008 . | - |
| 44. | « - - » | - | 10 | (-) 1-3/14 20.03.2014 . | - - - , - - Web- |
| 45. | AdobeCS4 Web- Premium | - | 20 | 7117150 - | - |
| 46. | Adobe CS5 Web Premium | - | 14 | 7919242 - | - |
| 47. | CorelDRAW Graphics Suite X3 | - | 15 | 3057808 - | - |
| 48. | CorelDRAW Graphics Suite X4 | - | 30 | 3067822 - | - |
| 49. | PROMT Transla- tion Server Intranet Edition | - | 51 | HKMYTVFUBP-0055 . 35-03/161 | |

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|--|---|------|--|---|
| | | | | 19.08.2008 . | |
| 50. | - | - | - | 6402/176500/ - 13.02.2015 . | , - - - - |
| 51. | - | - | - | / - 23.06.2005 . | - - |
| 52. | « - » - | - | 13 | 00000043 / - 26.01.2018 . 000126 - | - 1 : 8 |
| 53. | Msoffice | | 1106 | - - Microsoft Open License 40168024, 49487339, 61010664, 60979359, | - - Microsoft Microsoft Windows |
| 54. | Windows | | 1166 | 61316870, 45560005, | |
| 55. | Windows Server | | 8 | 45341392, 44964701, | |
| 56. | Windows Server - Device CAL | | 260 | 49066437, 48248804, 49487340, 43925361, 44544975, 43239932, 42882586, 46733190, 45936776, 46019880, 47425744, 47869741, 60102643, 41875901 | , - Windows Server |
| 57. | MS Project 2016 Russian OLP NL AcademicEdition | | 10 | MicrosoftOpenLi- cense 69436606 Tr000225378 08.02.2018 . | - |
| 58. | AstraLinuxSpecia- IEdition | | 100 | -14/1640-01- | . - - - « » - 'Astra Linux Special Edition' - - 86-64. |
| 59. | Linux | | - | - | |
| 60. | LibreOffice | | - | - | |

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|--|---|--------|---|--------------|
| 61. | OpenOffice | | - - | - - | |
| 62. | FarManager | | - - | - - | - Windows |
| 63. | 7-Zip | - | - - | - - | |
| 64. | Kaspersky End-point Security - - Russian Edition | - | 1050 | 2B1E-202006-185109-3-7061 10.07.2020 25.10.2022 | , - , |
| 65. | ArcView 3.2a Rus () | - | 10 | FPP 37128660 40/UN 8.12.1999 . | - |
| 66. | MapInfo Professional 12.5 Windows (.) | - | 25 | (- , 207/2014- 02.12.2014 . | - |