

Fbgk_l_jkl\h gZmdb b \ukr_]h h[k]pZakl\Zg Ny^_jZpbb
N^_jZevgh_]hkm^Zjkl_ggh_ [x^`_lgh_ h[jZah\ZI_evgh_
\ukr_]h h[jZah\Zgby
©Kfhe_gkdbc]hkm^Zjkl_gguc mgb_jkbl_l^a

DZn^_jZ bgnhjfZpbhgguo b h[jZah\ZI_evguo l_ogheh

©Ml_j`^Zx^a
ljhj_dlhj ih m q_l[hg^h q_kdhc
jZ[hl_
Mklbf_gx dh
©3^a bxg2022]

Рабочая программа дисциплины
Б1.В.02.07 ИЗБРАННЫЕ ВОПРОСЫ СОВРЕМЕННЫХ МЕТОДОВ ОБУЧЕНИЯ
ИНФОРМАТИКЕ

GZijZ\e_gb_ ih^]44.03.05 Педагогическое образование (с двумя профилями
подготовки)

GZijZ\e_gghklv): Математика, Информатика

NhjfZ h[mqhgbz y

Dmj45

K_f_kl]0±

<k_]h aZq_lguo±_qZghb7±

NhjfZ hlq_lghklb10 &Z_q_kl]±

ljh]jZffm jZajZ[hIZe

dZg^b^ZI i_^Z]h]bq_kdbo gZmdG^hp_gl Lbfhn__\Z

H^h[j_gZ gZ aZk_^Zgbb dZn^_ju

©6^a bxg2022] ijhlhdh0e <

AZ_^mxsbc dZn^_jhc BBBBBBBBBB

Kfhe_gkd
2022

1. Место дисциплины в структуре ОП

>bkpbiebgZ<02.07 Ba[jZggu_ \hijhku kh\j_f_gguo f_lh^h\
 bgnhjZlhdghkblkyZlhd nhjfbjm_fhc mqZklgbdZfb h[jZah\Z;lehedZguo
 Hl ih gZijZ\e_gbx i4.03.05h\ld^Z]h]bq_kdh_ h[jZah\Zgb_ ijhnbev
 BgnhjZlhdZ
 Hk\h_g^bbkpbiebgZlhdghkblkyZlhd hfZ_l_gpbb klm^_glh\ ihemq_ggu_ \
 ^bkbpbie; b H lkbohie_h^Z]h]bq_kdZy ih^]hlh\ld^ZZ]h]h^q_kdZy ijZdlb
 dZq_kl\ _mq_b_lkpybiebgZ qblZiyklyf dgmZ.kBamq_gb_ dmjkZ hkgh
 ljZ^bpbhgguo f_lh^Zo \ukr_c rdheu l_kghc \aZbfhk\yab kh kf_
 bkiheh\Zgbb kh\j_f_gguo bgnhjZpbgguo l_ogheh]bc

2. Планируемые результаты обучения по дисциплине

Dhfi_l_gpby	Bg^bdZlhju ^hklb`_gby
<p>ПК-1. Kihkh[_g ieZgbjh\Zlv b hkms_kl\eylv mq_[guc ijhp khhl_lkl\bb k hkgh\ghc h[s_h[jZah\ZI_evghc ijh]jZf hkghh^h h[s_]h b kj_^g_]h h h[jZah\Zgby</p>	<p>Знать: kh^_j`Zgb_ h h[s_h[jZah\ZI_evghc ijh]jZffu h[s_]h b kj_^g_]h h[s_]h kh^_j`Zgb_ ij_ih^Z\Z_fh]h_hj_b^ f_lh^b d m h[mq_gby if_mih^Z\Z; lj_[h\Zgby n_^_hjZeylghh^Zjkl\ h[jZah\ZI_evgh]h klZg^ZjIZ b b ^hdmf_glh\ j_]eZf_glbjmxsbo h[jZah\Zgb^j]ZgbaZpbx mq_[gh h^h[j_ggu_ Fbgbkl_jkl\hf ljhk mq_[gbdb mq_[gu_ b f_lh^b hj]ZgbaZpbx b h[hjm^h\Zguo dZ f_lh^u bkihevah\Zgby b \hafh`ghklb jZaebqguo kj_^kl\ Уметь: hij_^_eylv aZ^Zqb h[mq_ Z^_d\Zlgh_ bf kh^_j`Zgb_ mq_ mq_lhf \hajZklguo hkh[_ggkh ieZgbjh\Zlv b hkmvs_rkq\efguc ij khhl_lkl\bb k hkgh\ghc h[ijh]jZffhc hkgh\gh]h h[s_]h b k h[jZah\Zgb^kihevah\Zlv i_^Z h[hkgh\Zggu_ nhjfu f_lh^u hj]ZgbaZpbb ^_yl_evghklb h hk\h_gbx mq_[gh]h ij_^fZ ^bkbpbiebg f_h^mey g^kijm^sd_lkl \gmljbij_^f_lgmxb f`ij bgl_]jZpbx agZgbc b mf_gbc bkihevah\Zlv \ h[jZah\ZI_ev jZaghh[jZagu_ h[jZah\ZI_evgu_ Владеть: g_h[oh^bfuf ijhn_kkb bgkljmf_glZjith_af\heyxsbf ieZgbj hkms_kl\eylv mq_[guc ijhp_kk h[jZah\ZI_evghc ijh]jZffhc hkg kj_^g_]h h[s_]h h[jZah\Zgb ijh_^_gby mq_[guo aZgy]bc kZfhklhyl_evghc jZ[hlu h[m mq_[ghfm ij_^f]jkm ^bkbpbiebg_</p>
<p>ПК-2. Kihkh[_g \u[bjZlv b bki i_^Z]h]bq_kdb_ l_ogheh]bb ieZgbjm_fuo j_amevlZlh\ h[</p>	<p>Знать: mkeh\by \u[hjjZahhZl_e l_ogheh]bc ^ey ^hklb`_gby</p>

<p>hkgh\ghc h[s_h[jZah\ZI_ev hkgh\gh]h h[s_]h b kj_^g_]r h[jZah\Zgby</p>	<p>j_amev\Zlh\ h[kiqppb]dm bkihe kh\j_f_gguo h[jZah\ZI_evguo ij_^f_lghc h[eZklkboheh]bq hkh[_gghklb ijbf_g_gby i_ l_ogheh]bc \ jZaguo \hajZklg dZ_]hjbyo h[mqZxsbokhy\gu_ h[jZah\ZI_evguo l_ogheh]bc ij_ih^Z\Zgby ij_^f_IZ Уметь: hl[bjZlv kh\j_f_ggu_ h[jZ l_ogheh]bb k mq_lhf ki_pbr ij_^f_IZ \hajZklguo b bg hkh[_gghkl_c hkh[uo evg]ij ihlj_[ghkl_c h[mqZxsbokhy\gu_ mq_[gh_ aZgylb_ k bkihevah\Z h[jZah\ZI_evguo l_ogheh]bc ki_pbnbdb ij_^f_lghc h[eZklkboheh] mq_[gu_ aZgylby k bkihevah\ \b^h\ h[jZah\ZI_evguo l_ogheh klZg^Zjlguo mq_[guo aZ^Zq Владеть: gZ\udZfb j_ZebaZpbb h[jZah\ZI_evguo l_ogheh]bb k mq_[gh]h ij_^f_IZ \hajZ bg^b\b^mZevguo hkh[_gghkl h[jZah\ZI_evguo ihlj_[ghkl_c gZ\udZfbjh_^_gby mq_[guo]c bkihevah\Zgb_f kh\j_f_gguo h l_ogheh]bc \dexqZy bgnhjZpb pbnjh\u_ h[jZah\ZI_evgu_ j_kmj</p>
<p>ПК-6. Kihkh[_g bkihevah\Zlv agZgby \ ij_^f_lghc h[eZklb \ ijhp_kk_ nhjfbjh\Zgby ij_ dhfi_l_gpbmqZxsbooky \ jZfd j_ZebaZpbb hkgh\ghc h[s_h ijh]jZffu</p>	<p>Знать: gZagZq_gb_ kljmdljm b bgnhjZlbb kh\j_f_ggh_ k i_jki_dlb\ u jZa\bly bgnhjZlbd ^bkpbiebgu __ f_klh b jhev y^jh kf\jggh]h rdhevgh]h bgnhjZlbb ijbgpbui i f_lh^bq_kdhc kbkl_fu h[mq_gby hkgh\guo dhfihg_glh\ Уметь: ZgZebabjh\Zlv p_eb b rdhevgh]h dmjkZ bgnhjZlbb h[jZah\ZI_evguo ijhp_kk ^b^Zdlbqckd ihl_gpbZe bgnhjZpbhgguo l_ogheh]bc h[jZah\ZI_evgh]h ijhp_kkZ bgnhjZlbb Владеть: hkgh\gufb \b^Zfb ijhn_k ^_yl_evghklb mql_ey ijhn_kkbhgZevgufb gZ\udZfb f_lh^bdb h[mq_gby hkgZfgudm bgnhjZlbb kh\j_f_ggufb bg dhffmgbdZpbhggufb kj_^kl\ wnn_dlb\gh]h hkms_kl\e_gby i ^_yl_evghklb</p>

3. Содержание дисциплины

Современная модель образования. ljbgbpiu ihkljh_gby kh\j_f_gghc h[jZah\ZI_evghp]hkkiz Bgl_jjbjh\Zgguc dhfi_l_glgkkguc ih^oh^a kljmdlmjZ hkgh\gu_dhfi_l_gpbb mql_ey bgnhjZlbb H[jZah\ijbf_g_gby dhfivxl_jguo kj_^kljmhfmjZgbydl_l_gpbb mql_ey

Методы обучения в сотрудничестве. Pbnjh\h_ihdhe_gb_dZd nZdlhj kh\j_f_gghc fh^_eb h[KZashgZglby f_lh^h\ h[mq_gby \ khlijm^gbq_ ijbf_g_gby h[mq_gb_ \ dhfZg^_ f_lh^ IZae \aZbfhh[f_g aZ^ fZI_jbZeZ \ iZjZo ljh]jZklfgZ^_kj hj]ZgbaZpbb kh\f_klghc jZ[hlu

Коммуникативно-когнитивные методы. Kmsgghklv dhffmgbdZlghguo f_lh^h\ ljb_fju ijbf_g_gby f_lh^ dZjljbjh\Zgby fure_gby jZ[hIZ dZjIZfb -d_lhk^ f_lh^ ijh_dlh\ H[Zafhgudijh]j_^kl\ ^ey ihkljh bgl_jZdlb\guo ieZdZlh\ dZplgl_ee_dl

Методы концентрированного обучения с помощью знаково-символических структур. Kmsgghklv hkgh\gu_ ihgylyby f_lh^h\ dhgp_gljbjh\Zggh]h agZd-h\hf\hebq_kdbo kljbfldjmijbf_g_gby f_lh^bdZ < RZIZeh\Z l Wj^gb_\Z l_ogheh]by khklZ\e_gby hihjguo dhgki_dlh\ H] bgnh]jZnbb ^ey ihkljh_gby hihjguo dhgki_dlh\

Методы визуализации информации. <bamZebaZpby mq_[ghc bgnhjZpbb ihkljh_gby kh^_j`Zgby mq_[ghc bgnhjZpbb ijbgpbi kbkl_fgh] dh]gblb\ghc \bamZebaZpbb H[ahj ijh]jZffguo kj_`k^bd^ay \kl l_ogheh]bb kdjZc[bg]

Возможности интернет-технологий в образовании. L_ogheh]by HldjZlth\Zhg_b_ kmsgghklv hldjulu_ h[jZah\ZI_evgu_ j_kmjkkd\h^glub_ dphnjrg_u l_ogheh]bb \ h[jZah\Zgbb

4. Тематический план

№	Тема	конт.	конт.				
			лекц.	семинары	практич.	самост.	
1	Kh\j_f_ggZ fh^_ev h[jZah\Zgb	13	2	-	-	6	5
2	F_lh^u h[mq_gby \ khlijm^gbq_	11	2	-	-	4	5
3	DhffmgbdZ -dh]gblb\gu f_lh^u	16	2	-	-	6	8
4	F_lh^u dhgp_gljbj h]h h[mq_g ihfhsvx agZd-h\h kbflhebq_k kljmdlmj	9	2	-	-	2	5
5	F_lh^u \bamZebaZ bgnhjZpbb	11	2	-	-	4	5
6	<hafh`ghkl bgl_jg_l l_ogheh]bc h[jZah\Zgb	12	2	-	-	2	8
Итого		72	12	-	-	24	36

5. Виды образовательной деятельности

AZ^Zgby ^ey e_dpbhgguo b ijZdlbq_kdbo aZgylbc ^ey kZfh
jZaf_s_gu \ kbkl_f_ ^bklZgpbhggh]h h[mq_gby Kfhe_gkdh]h]hkr

Занятия лекционного типа

1. **Современная модель образования.** ljbgbpiu ihkljh_gby kh\j_f_gghc
h[jZah\ZI_evgh]h ijhp_kkZ Bgl_]jbjh\Zgguc dhfi_lkrg\$gthkllyud
kljmdlmjZ hkgh\gu_dhfi_l_gpbb mabl_ey bgnhjZlbdb H[jZah\
ijbf_g_gby dhfivxl_jguo kj_^kl\ h[mq_gby

2. **Методы обучения в сотрудничестве.** Kmsgghklv f_lh^h\ h[mq_g
khljm^gbq_kl_ ljbfb_ju ijbf_g_gby g^mq_fg_bh^ \ lZafeZ \aZbfh
aZ^Zgbyfb bamq_gb_l_dklh\h]h fZI_jbZeZ \ iZjZo ljh]jZffgu
kh\f_klghc jZ[hlu mqZsboky

3. **Коммуникативно-когнитивные методы.** Kmsgghklv dhffmg-bdhZ gbb\gh guo
f_lh^h\ ljbfb_ju ijbf_g_gbyljfbjH\Zg dZjfuture_gby jZ[hIZ k mq_[guf
dZjIZfb -d_lhk^ f_lh^ ijh_dlh\ H[ahj ijh]jZffguo kj_^kl\ ^
bgl_jZdlb\guo ieZdZlh\ dZjgl_ee_dl

4. **Методы концентрированного обучения с помощью знаково-символических структур.** Kmsgghklvghhgu_ ihgyby f_lh^h\ dhgp_gljbjh\Zggh]h h[m
agZd-khf\he bq_kdbo kljmdlmj ljbfb_ju ijbf_g_gby f_lh^bdZ < R
l Wj^gb_\Z l_ogheh]by khklZ\e_gby hihjguo dhgki_dlh\ H]
bgnh]jZnbdb ^eybiykhijh]guo dhgki_dlh\

5. **Методы визуализации информации.** <bamZebaZpby mq_[ghc bg
ijbgbpiu ihkljh_gby kh^_j`Zgby mq_[ghc bgnhjZpbb ijbgbpi k
ijbgbpi dh]gblb\ghc \bamZebaZpbb H[ahj ijh]jZffguo jk^onkl\ ^
\ l_ogheh]bb kdjZc[bg]

6. **Возможности интернет-технологий в образовании.** L_ogheh]by Hldjul
h[jZah\Zgb_ kmsgghklv hldjulu_ h[jZah\ZI_evgu_ j_kmjku \ k
pbnjh\u_ l_ogheh]bb \ h[jZah\Zgbb

Занятия семинарского типа

1-3.

P

Pbnjh\baZpby h[jZah\ZI_evgh]h ijhp_kkZ mjhdb iZgnjfb\Zy gh
h[jZah\ZI_evgy kj_^Z
KljmdlmjZ dhd_l_gpbb mabl_ey

A

1. KhklZ\vl_ djZldbc lhedh\uc keh\Zjv ghkfyosg_hckly]bb ijh p_k
pbnjh\baZpbb ijhbkoh^ysbf \ kn_j_ h[jZah\Zgby < keh\Zjv ke_
l_jfbgheh]bx \f_kl_ k __ lhedh\Zgb_f

- =g_a^h gZ hihjguo bbnjhbbaZpby h[jZah\ZI_evgh]fZljbqpkdkZ [eh
pbnjh\Zy wdhg b h hbaZpby h[jZah\Zgby pbnjh\Zy h[jZah\ZI_ev
^b^ZdlbdZ

2. HagZdhfvl_kv k ^_lZevguf hibkZgb_dhfk]lm gpbju rbdw_ey j
IJBFG?G?GB? BDL

3. Hibrbl_ dZdbf h[jZahf <Zfb bkihevah\Zebkv \hafh`ghklbcBDL
ijZlbdb ijb ij_ih^Z\Zgbb fZI_fZlbdbjh ZgZebfZbpb' dZdb_ ijh]
kj_^kl\Z <u bkihevah\Zeb \ mq_[ghf ijhp_kk_"

4. JZkkfh]jbl_ N_^_jZevguc]hkm^Zjkl_gguc h[jZah\ZI_evguc kl
h[s_]h h[jZah\Zgby jZabyedLj_fm^ZglZIZf hk\h_gby hkgh\ghc h

ijh]jZffu DZdb_ ba j_amevlZih\ ihfh]Zxl ^hklb]gmlv bkihevah\
kj_^kl\Z"

DZdhc gZ <Zr \a]ey^ ^he`gZ [ulv kbkl_fZ fhIb\Zpbb ij_ih^Z
h[mq_gbb"

5. K^_eZih^[hjd mkkuehd gZ]hlh\u_ ijh]jZffgu_kmj]k^um dhuib_ ^f_Im
bgnhjZlbdZ g_ f_g__

6 Ij_^eh`bl_ djbl_jbb ZgZebaZ b hp_gdb pbnjh\uo h[jZah\ZI_evgh
IjhZgZebabjmcl_ bkihevamy wlb djbl_jbb h^bg ba j_kmjkh\ ij_`
ij_^u^ms_f imgdl_

Azb_ 1. HagZdhfvl_kv k ^_IZevguf hibkZgbd_hffikIj_mgdlnj um BDL_ey jZa^_e
HK<H?GB? AG:GBC

2. DZd BDL b ki_pbZebabh\Zggu_ ijh]jZffgu_ kj_^kl\Z ihfh]Zxl h
fZI_jbZeZ k bkihevah\Zgb_f flj^h^Zb ijhb_fdljhu`ijh_dlh\ ih bgnhjZlbd
bg^b\b^mZevgu_]jmiih\u_ g_ f_g__ MdZaZlv gZ dZdbo wlZ
ij_^iheZ]Z_lky bkihevah\ZagZ[h_BDL"djbl_jbb hp_gb\Zgby ijh_dlg
bgnhjZlbd_

3. GZclb gZcI_Zo b \ dZkZeh]Zch_c ij_^f_lghc h[eZklb fZI_jbZeZ
fh`gh bkihevah\Zlv rdhevgbdZf \ oh^_ jZ[hlu gZ^ ijh_dIZfb l_fZ
<Zfb \ ij_^u^ms_f aZ^Zgbb i

Azb_ 3. 1. HagZdhfvl_kv k ^_IZevguf hibkZgbd_hffikIj_mgdlnj um BDL_ey
IJHBA<H>KL<H AG:GBC

2. Ijh^_fhgkljbjmcl_ kh[kl_ggu_ mf_gby ih bkihevah\Zgbx k_l_\u
kh[kl_gguo Z\lhjkdbo mq_[guo fZI_jbZeh\ ih ex[hc h^ghc l_f_ r
bgnhjZlbdb g_ f_g__ lj_o bgl_jZdlb\guo aZ^ZgZck\lex[uo ba_k
j_kmjKZo

3. Ijb_klb l_fZl bq_kdh_ ieZgbjh\Zgb_ mq_[gh]h fZI_jbZeZ ih fZI_
<u ij_ih^Z\Zeb \ jZfdZo i_^Z]h]bq_kdhc ijZdlbdb y\gh \u^_ebl_
ij_ih^Z\Zgbb fh`gh [ueh [u fZdkbfZevgh bkihevah\Zlv BDL"

4 DZd \ rdhe_]^_ <u ijhoh^beb ijZdlb dm ih^^_j`b\Zebkv b ihh
qbke_ b Zdlb\gh_ bkihevah\Zgbj_ ^B Dllg brdcZf b"eyfb

4-5.

Pbnjh\h_ ihdhe_gb_ dZd nZdlhj ihkljh_gby pbnjh\h]h h[jZah\ZI_
Ijh]jZffgu_ kj_^kl\Z ^ey hj]ZgbaZpbb kh\f_klghc jZ[hlu mqZsbok
Azb_ 4.

1. JZ[hIZ gZ^ dhee_dlb\ghc ij_a_gIZpb_c Bgnh]jZnbdZ \ h[jZah\
2. Knhjfbjmcl_ iexku b fbgmku pbnjh\h]h h[jZah\ZI_evgh]h ijh
hlghr_gb_ d pbnjh\baZpbb h[mq_gby" DZdh\u h`b^Zgby hl
ih^I_^abl_ ml_j^_gb_ h lhf qlh mqZsb_ky [_a hkh[h]h `_eZ
pbnjh\baZpbb \ h[mq_gby]mf_glbjmcl_

Azb_ 5. 1. <ebyxl eb hkh[_gghklb h[mqZxsboky gZ hj]ZgbaZpbb bkihevamy
fZI_jbZeZ ba jZaebqguo bklhqqbdh\ bklhqqbdb mdZaZlv ^hi
GZijbf_j hibkZ\ oZjZdl_jgu_ hkh[_gghklb]ZklZdhe_gby ih \
JZkij_^_eblv f_^m kh[hc ghf_jZ `mjgZeZ >_lb \ bgnhjZpb
ZgghIZpbx gZb[he__ ihgjZ\b\r_cky klZlvb `mjgZeZ Hlh[jZlv fZI_
[u bkihevah\Zlv ^ey ijh_^_gby deZkkgh]h bqZ&Z ^e y b g]m]bfZl
l_fZl bq_kdh]h jh^bl_evkdh]h kh[jZgby b beb ^ey ijh_^_gby i_^

6-8.

~~h~~

Kmsgghklv dhffmg-bdchZ gbl\p h guo f_lh^h\
F_lh^ dZjljbjh\Zgbybyurk_klgh_gb_ b gZjejeZ_dIZ k mq_[gufb hihjg
dZjIZfb

Azb_ 6.

1. Kha^Zcl_ \ ex[hc ijh]jZff_ ih kha^dZg bxf bgl_a b j_e dl ba yed_Zjpb mb
\hafh`gu_ l_fu k_fvy ijhn_kkby oh[[b [bh]jZnby `_eZgby b p
Kha^Zcl_ k_Cacoj\ dhee_dlb\gmx bgl_ee_dl dZjlm GZrZ jjmiiZ

Azb_

1. <u[_jbl_ h^gm ba klZI_c \ jZkkfhlj_gghf <Zfb jZg__ ghf_
bgnhjZpbhgghf h[k_kh hsvx k_j\bkZ 0LQGPHLVWHU beb 0LQGR
dZjlm \ d h h h j j Z a b m \ w [j Z g g h c k l Z I v b

Azb_

JZkkfhlijbl_ ij_^eh`_gg_u_ ij_ih^Z\ZI_e_f ijb_f_ju mq_[guo hihjg
KZfhklhyl_evgh jZajZ[hIZcl_ ih^h[gu_ dZjlu ih ex[hc ba
bgnhjZlbdb

9.

ũ

kjhkuéyhkm^gby

Kmsgghklv hkgh\gu_ ihgyIby f_lh^h\
dhgp_gljbjh\Zggh]h -h[mq
kbf\he bq_kdbo kljmdlmj
L_ogheh]by khklZ\e_gby hihjguo dhgki_dlh\
Azb_

Azb_

HagZdhfblvk_ h k j d_ o g h k l Z \ e _ g b y h i h j g u o d h g k i _ d l h \ < R Z I Z e h
< ex[hf ba_Zfg k f j \ k k Z I b q g h c h j j Z n b d b j Z a j Z [h I Z I v h i h j g u c d
\u[jZgghc l_f_ rdhevghc bgnhjZlbdb

10-11.

~~h~~

~~h~~

<bamZebaZpby mq_[ghc bgnhjZpbb
KIZIbqgZy b ^bgZfbqgZy bgnh]jZnbdZ

Azb_

1. Kha^Zlv kdjZc_e_b] gZ h[mqZxsmx beb \hkiblZI_evngx l_fZI
3RZ7RRQ FRP ijh^he`bl_evghc k f b g g h l l f_l g i j _ ^ h k I Z \ b l v \ \ b ^ _ k k u
jZjZ[hldm \ueh`_ggmx gZijbf_j \ \RXWXEH FRP

Azb_

1. JZajZ[hIZlv bgl_jZdlb\guc ieZdZI ih ex[hc ba \u[jZgguo \Zfb
bkihevamy kj_^kl\Z k_j\bkZ 7KLQJ/LQN h[-yakZile_dlv gghZ bl_kichel v a
bgnhjZpbx]jZnbcg_nkhj_mZpbx \b^_h kkuedb gZ klhjhggb_ j_kmj

12.

- ũ

~~h~~

L_ogheh]by Hldjulh_ h[jZah\Zgb_
Kd\hagu_ pbnjh\u_ l_ogheh]bb \ h[jZah\Zgbb

~~h~~

1. lhykgl_ qlh lZdh_ djb\ZyjhZgZg_e_b]mbl_ gZ dZdhf wIZ
\hafh`ghkl_c ^ey kn_ju h[jZah\Zgby \ khhl_lkl\bb k djb\h
kh\j_f_ggu_ pbnjh\u_ l_ogheh]bb"

2. AZihg b]_^eh`_ggmx ij_ih^ZVZle_bep_m ijbf_jZfb b kkuedZfb gZ
 Bgl_jg_l ih bkihevahhZg b x pbnjh\uo l_ogheh]bc \ hp_gd_ mq_[g
 3. IjhZgZebabjmcI_ hldjulmx h[jZah\ZI_evgrm khivZfnbjfZny kPbHjK\h
 h[jZah\ZI_evgrZy kj_^Z Fhz h[jZah\Zgb_ GZc^bIK_dhbMdhu
 h[jZah\ZI_evgruo mqj_`^_gbc mgZklj\mbxll\h\ijh]jZff_" MdZ`bl_
 ba_klguo \maz ba qbkeZdmeqvZklhg b dhjkh\ jZaf_s_gh gZ ^Zggh
 MdZ`bl_ gZa\Zgbc dmjkh\ [ebadbo ih l_fZlbd_ \Zr_c ki_p
 d\ZebnbdZpbb FZI_fZlbdZ bgnhjffZb b Zb m qbg n b jf Z d y k g bl_ dZc
 ijhbkoh^bl azibkv gZ dmjk" Fh`gh eb gZqZlv h[mq_gb_ gZ ex
 Bamqbl_ hibkZgb_ h^gh]h ba dmjkh\ DZdh\Z ijbf_jgZy ^ebl_evgr
 qZkh\ \ g_^_ex Ij_[m_lky ^ey m k "D Z g h i] h e m [m b d v g k _ j l b n b d Z I h [h
 dmjkZ"

Самостоятельная работа

L_dmsZy kZfhklhyl_evgrZy jZ[hIZ klm^_glZ gZijZ\e_gZ gZ
 agZgbc klm^_glh\ b jZa\blbb ijZdlbq_kdbo mf_gbc HgZ aZdexo
 fZI_jbZeZfb dihb k h[ahj_ ebl_jZlmju b we_dljhgguo bklhgqbd
 aZ^Zgguf l_fZf dmjkZ hi_j_`Zxs_c kZfhklhyl_evgrhZdjZgh_kdbfih
 aZgylbyf

- KZfhklhyl_evgrZy \g_Zm^blhjgZy jZ[hIZ klm^_glh\ khklhbl \
- ijhjZ[hld_ e_dpbhggh]h fZI_jbZeZ
- \uiheggbaZ^Zgbc ^ey kZfhdhgljhey d e_dpbhggu f aZgylbyf
 kjkubaZby eykZhdhgljheyde_dpbbZihh`gu\
 kbkl_f bklZpbhggh h fmgqby Kfhe=M \ khhl\klmxs_f dmjk _
<https://cdo.smolgu.ru/mod/assign/view.php?id=2807>

6. Критерии оценивания результатов освоения дисциплины (модуля)

6.1. Оценочные средства и критерии оценивания для текущей аттестации

Hp_ghqgu_ kj_^kl\Z ^ey l_dms_c Zll_klZpbb
 Ipf_gucZle_dpbhgghhazylby
 Z F?LH>U <BAM:EBA:PBB BGNHJF:PBB
 L_hjlbqkdb_ hihk
 <bamZebaZpby mq_[ghc bgnhjffZpbb ijbgpbiu ihkljh_gby
 bgnhjffZpbb ijbgpbi kbkl_fgh]h d\Zglh\Zgby ijbgpbi dh]gblb\ghc
 H[ahj ijh]jZffguo kj_^kl\ ^ey k j h a e v Z g r b y \ \ b ^ o g h e h] b b k d j Z c [b g
 kjkubaZby eykZhdhgljheyde_dpbb
 1. JZkrbnjmcI_ hkgh\gu_ ijbgpbiu ijbgpbiu ijbapZie k b Z p b f g h] h d \ Z g l h
 ijbgpbi dh]gblb\ghc \bamZebaZpbb h]eZkmxlky k hkgh\guf ijbgpbi
 ijbgpbi hf gZ]ey^ghklb"
 <u[jteix[u_ ba \Zf ba_klgZu o eky_ji\bklijh_gby ^bgZfbqghc bg
 jZkkfhlij_ggu_ gZ e_dpbb beb ba\Hk hg g Z q Z f _ j Z o _ i e x k u b f b g m k u



Z F?LH>U <BAM:EBA:PBB BGNHJF:PBB >BG:FBQG:Y BGI
 L_hjlbqkdb_hihku
 1. <bamZebaZpby mq_[ghc bgnhjffZpbb
 KlZlbqgZy b ^bgZfbqgZy bgnh]jZnbdZ
 Ijlbqkdb_aZby
 1. JZajZ[hIZlv bgl_jZdlb\guc ieZdZI ih ex[hc ba \u[jZgguo \Zfb
 bkihevamy kj_^kl\Z k_j\bkZ 7KLQJ/LQN h[-y k k Z i l e d e b g g h Z b l k i c h e l h a
 bgnhjffZpbx]jZnbq_kdmx bgnhjffZpbx \b^_h kkuedb gZ klhjhg

Критерии оценивания для текущей аттестации

D

1. Ghjfu hp_gb\Zgby dZ`^h]h ijZdlbq_kdh]h aZ^Zgby

< i i	KljmdlmjgZy qZklv j	Dhebq_kl\h [Zee
1	>_fhgkljZpby \uiheg_gby aZ^Zgbc ij_^eh`_ggg kZfhdhgljhey d e_dpbb	[Zee aZ aZ^Z

RdZeZ hp_gb\Zgby Hp_gdZ @aZql_gh^a aZ ijZdlbq_kdh_ aZgy
g_f_g__ [Zeeh\ \ ijhlb\ghf kemqZy_kkZy aZgy labZ_q\ughz

D ~~UihgggZbiZlh]haZb~~

2. Ghjfu hp_gb\Zgby dZ`^h]h ijZdlbq_kdh]h aZ^Zgby

< i i	KljmdlmjgZy qZklv j	Dhebq_kl\h [Zee
1	>_fhgkljZpby \uiheg_gby aZ^Zgby ij_^eh`_eggh]r_g	[Zee aZ aZ^Z
2	HI_lu gZ l_hj_lbq_kdb ij_^eh`_ggg_d k_fbgZjkd	[Zee

RdZeZ hp_gb\Zgby Hp_gdZ @aZql_gh^a aZ ijZdlbq_kdh_ aZgy
g_f_g__ [Zeeh\ \ ijhlb\ghf kemqZy_kkZy aZgy labZ_q\ughz

6.2. Оценочные средства и критерии оценивания для промежуточной аттестации

Hp_ghqgu_ kj_^kl\Z hp_gb\Zgby ^ey ijhf`_mlhqghc Zll
Dhglhevgh_azb

, < dZ`^hf imgdl_ i_j_kkkl\ZBDblhju_ iha\heyxl j_Zebah\
ijZdlbd_ mdZaZggg_ ijbgpbiu hj]ZgbaZpbb h[mq_gby

- Dhee_dlb\gh_ mqZklb_ \ h[mq_gbb
- <bamZebaZpby mq_[ghc bgnhjZpbb
- Kbkf_lfgh_ d\Zglh\Zgb_ mq_[ghc bgnhjZpbb \u^_e_gb_
we_f_glh\ k`Zlb_ bgnhjZpbb ij_^klZ\e_gb_ __ \ \b^_
kbfl\ebq_kdbo h[jZah\
• <hafh`ghklb ^_yl_evghklgh]h h[mq_gby

,, <u[_jbl_ gZb[he__ ZdlmZevgu_ gZ \Zr \a]ey^ l_fu ih\ur
i_^Z]h]h\ \ h[eZklb BDL \ h[jZah\Zgbb H[hkgmcl_ k\hc \u[hj lj]
hl ij_^eh`_ggg l_fZlbbdb\Zebm_bgbZpbb

- BDL \ ijhnbevghf h[mq_gbb \ rdhe_ b \ebygb_ BDL gZ i
mqZsboky dZd we_f_glZ m^h\e_l\hj_gby aZijhkh\ jugdZ
- BDL dZd g_hlt_fe_fZy qZklv kbf_fu we_dljhgguo ^g_\g
- BDL dZd qZklv gh\hc bgnhjZpbb h[ghcb dm evb mgb_f]eh[Ze
kj_^kl\ BDL gZ nhjfbjh\Zgb_ fheh^`_guo km[dmevlmj b
mqZsboky
- BDL dZd bgkljmf_glu ^ey bg^b\b^mZebaZpbb h[mq_gby
mqZsboky
- BDL \ hj]ZgbaZpbb ijh_dlg hc b bkke_^h\Zl_evkdhc ^_yl
- BDLdZd bgkljmf_gl dhgljhey ^bZ]ghklbdb b kZfh^bZ]ghk
- We_dljhgZy rdheZ k_l_\hc mqbl_ev b k_l_\hc mq_gbd
we_dljhggh]h h[mq_gby

Критерии оценивания для промежуточной аттестации

D

Ghjfu_hp\Zgby jZ[hlu

< i i	KljmdlmjgZy qZklv dhgljh	Dhebq_kl\h [Zee
1	ljZ\bevgh j_r_dgh]hevagZ^Z	[Zee

RdZeZ hp_gb\Zgby jZ[hlu

i i	Hp_gdZ	Dhebq_kl\h [Z
1	AZql_gh	1-2
2	G_aZql_gh	f_g_l_

AZq_l \uklZ\ey_lky ZhZfj_jZ[hlu klm^_glZ \ l_q_gb_ k_f_k
 lneh`_gbx h l_dms_f dhgljhe_ mki_Z_fhklb b ijhf`_mlhgghc
 n_^_jZevghf]hkm^Zjkl_gggh [x^`_lghf h[jZah\ZI_evghf mqj_`^_
 ©Kfhe_gkdbc]hkm^Zjkl_gggu mhgj`^_jg b l i j b d Z h a h l h j Z - h l
 \g_k_gu ^hiheg_gby ijbdZahf l j_dlhj)Z <
 >ey ihemq_gby aZq_lZ klm^_gl ^he`_g
 • lhemqblv hp_gdm ©aZql_gh^a aZ \k_aZgylby e_dpbhggh]h
 • <uihegbdhvgljhevagZ^ZgZ hlf_ldm ©aZql_gh^a

7. Перечень основной и дополнительной учебной литературы

7.1. Основная литература

1. Kh\j_f_ggu_ h[jZah\ZI_evgu_ l_ogheh]bb mq_[gh_ ihkh[b_ ^
 ^j @ ih^ j_^Zdpb_c ? G :rZgbghc `H\Z< 2-<Zkagghci_K_jZf ?b ^h
 Fhkd\Z Ba^ZI_evkl\h XjZcl k^2 <ukr__ h[jZah\ZI_evgn_978-5-534-
 06194-9. ^2 L_dkl we_dljhggu H[jZah\ZI_evgy ieZlnhjfZ Xj
 KWWSV XUDLW UX EFRGH 022). ^ZIZ h[jZs_gby
2. Khnjhgh\Z G < L_hjby b f_lh^bdZ h[mq_gby bgnhjZbd_
 G < Khnjhgh\Z : : ^2;2-evgha^kh\i_j_jZf Fhkd\Z Ba^ZI_evkl\h X
 2022. ^2 k^2 <ukr__ h[jZah\ZI_evgn_978-5-534-11582-6. ^2 L_dkl we_dljhggu
 H[jZah\ZI_evgy ieZlnhjfZ XjZc85>kZKWWSV XUDLW UX EFF
 h[jZs_gby

7.2. Дополнительная литература

1. O_gg_j ? D Nhjfbjh\Zgh_i_lBdlghklb mqZsboky b ij_ih^Z
 kbkl_f_g_ijh]b\g[jZah\Zfgby;BGHF EZ[hjZihjby agZgbc
2. Djueh\Z H G FmrlZ\bkgdZy B < Gh\Zy ^b^ZdlbdZ kh\j_f
 _^_gby N=HK HHH F_lh^bq±Kldh_DhkH[b_

7.3. Перечень ресурсов информационно-телекоммуникационной сети «Интернет»

Kbkl_fZ ^bklZgpbggh]h h[mq_gby Kfhe=M FGR VPROJX
 We_dljhggu dZIZeh] [b[ebhl_db Kfhe_gkdh]h]hkm^Zjkl\
 (http://biblioteka.smolgu.ru)
 We_dljhggu hl_qgZy kbkl_fZ XjZcl KWWS XUDLW UX
 Jhkkbc_kldZy^Zjkl_ggZy ;b[ebhl_dZ KWWS ZZZ UVO UX
 GZpbhgZevgZy [b[ebhl_dZ Jhkkbb KWWS QOU UX
 =hkm^Zjkl_ggZy im[elbqgZy_gkZnZg]b[ebhl_dZ Jhkkbb KW
 We_dljhggu_dZIZeh]b b [Zau ^Zgguo =hkm^Zjkl_ggghc im
 l_gbq_kdhc [b[ebhl_db Kb[bjkdh]h hl^_e_gby J:G
 http://webirbis.spsl.nsc.ru/irbis64r_01/cgi/cgiirbis_64.exe?C21COM=F&I21DBN=CAT&P21DBN=C
 AT
 GZmqgZy we_dljhgguZy [b[ebhl_dZ KWWSV HOLEUDU\ U

8. Материально-техническое обеспечение

>ey ql_gby e_dpbcgby jh]Zdlbq_kdbo aZgylbZm^ki hpbay mkljZm k
 Zm^blhjby hkgZs_ggZy Z\lhfZl babjh\ZggGfijjZilhqZ\Zf_k_lhf
 dhfivxl_j ijh_dlhj bgl_jZdbb\gZyk^m^kdZlh\

9. Программное обеспечение

Microsoft Open License (Windows XP, 7, 8, 10, Server, Office 2003-2016), E b p _ g @ 6620993 h l
24.05.2016, _ ` _] h ^ g h [g h \ e _ g b _

Microsoft Open License (Windows XP, 7, 8, 10, Server, Office 2003-2016), E b p _ g @ 6675477 h l
03.06.2016, _ ` _] h ^ g h [g h \ e _ g b _

Kaspersky Endpoint Security ^ e E b p _ g @ 66151216081242, _ ` _] h ^ g h [g h \ e _ g b _

Электронные библиотечные системы и электронная информационно-образовательная среда

We _ d l j h g g Z y [b [e b h l _ q g Z y k b k l _ f Z © W ; K X J : C L ^a > h] h \ h j < I
h [g h \ e _ g b _

K > H J m k k d b c 0 R R G O H . / 1 R U P k l _ o g b q _ k d b f h [k e m ` b \ Z g b _ f :
< M L > X h l _ ` _] h ^ g h _ h [g h \ e _ g b _