

Fbgk\_l\_jkl\h gZmdb b \ukr\_]h h[jZah\Zgby Jhkkbckdh  
N\_^\_jZevgh\_ ]hkm^Zjkl\\_ggh\_ [x^`\_lgh\_ h[jZah\ZI\_ev  
 \ukr\_]h h[jZah\Zgby  
©Kfhe\_gkdbc ]hkm^Zjkl\\_gguc mgb\\_jkl\_l^a  
DZn\_^jZ bgnhjZpbhgguo b h[jZah\ZI\_evguo l\_oghe

«Утверждаю»

l j h j \_ d l h h m q \_ [ g h  
f \_ l h ^ b q \_ k z h c l \_  
\_\_\_\_\_ X : M k l b f \_ g d h  
© a b x g y . ]

**Рабочая программа дисциплины  
Б1.О.13 Цифровые технологии в образовании**

GZijZ\e\_gb\_ ih^440301 Педагогическое образование  
GZijZ\e\_gghklv ): Изобразительное искусство  
NhjfZ h[mq\_gby hqgZy  
Dmj ±  
K\_f\_kl ±  
<k\_]h aZq\_lguo\_^b-g1b8p qZkh\  
NhjfZ hlq\_lghkl ±4 k\_zfq\_kllj

l j h j j Z f f m j Z a j Z [ h l Z e  
d Z g ^ i g ^ h p \_ g l D b k \_ e \_ \ Z F l

l j h j j Z f f Z m l \ \_ j ` ^ \_ g Z g Z a Z k \_ ^ Z g b b d Z n \_ ^ j u b g n h j f Z p b h g g u  
l \_ o g h e h ] b c  
© a b x g y ] i j h l h d h e <

A Z d Z n \_ ^ j h c B B B B B B B B B B B B B B



	<p>ihemq_gguo j_ame Z]Z[Z\lu\Zlv jZaebd  dhgljheyvgh_jbl_evguo fZl_jbZeh\ \  bkihevah\Zgb_f bgnhjfZpbhgguoZpb  l_ogheh]bkihevah\Zlv \ mq_[ghc ijZd  nhjfu hp_gdb hl\_lh\ mqZsboky  dhjjdlbjh\Zlv ljm^ghklb \ h[mq_gbb i  ijbf_g_gby jZaebqguo nhjf b f_lh^h\  hp_gb\Zgby</p> <p><b>Владеть:</b> kihkh[Zfb b kj_^kl\Zfb hp_gb\Zg  ^hklb`_gbc l_dmsbo b blh]h\uo j_ame  hkggh\ghc h[jZah\Zl_evgh]h]m]j]Z]f]b]ky  jZaebqguofb kihkh[Zfb dhgljhey b hp_g  h[jZah\Zgby \ hj]ZgbaZpbb mq_[gh]h</p>
<p><b>ОПК-8</b> Kihkh[_g  hkms_kl\eylv  i_^Z]h]bq_kdmx  ^_yl_evghklv gZ f  ki_pbZevguo gZm  agZgbc</p>	<p><b>Знать</b> h[t_d] ij_^f_l hkggh\gu_ dZl[u]  aZdhghf_jghklb kljmdlmjm i_^Z]h  kmsgghklv kljmdlmjm ^bgZfbdm p_eh  ijhp_kkZklhygb_ b l_g^_gpbb jZa\blb  f`^mgZjh^guo i_^Z]h]bq_kdbo b  bkke_^h\Zgblh^heh]bx i_^Z]h]bq_kdhZ  hkh[_gghklb eh]bdm aZdhghf_jghkl  kj_^kl\Z ijhp_h]h]Z_gby\h]kib]Zgbykgh  ikboheh]bb ebqghklb hkggh\gu_ l_hj_  ihgbfZgbx n_ghf_gZ iehaggZ\Zl]b_evgu_ i  bo k\hckl\Z aZdhghf_jghklb_ b_e]h]d]m]Z  l\hj_q_kdhc ^_yl_e]h]kl]bh]l]bq_kdb_  f_lh^bdb ij_ih^Z\Zgby ij_^f_lZ \ h[t_  ^ey hkms_kl\e_gby i_^Z]h]bq_kdhc ^  b nmgdpbb hj]ZgbafZ hkggh\gu_ aZd  q_eh\_dZb_h]Z_d]h]ghklb b \hajZklgu_  nmgdpbhgbjh\Zgby k]b]k]h]f]j]Z]g]bafZ mq  ]b]b_gbq_kdb_ l]_[h\Zgby d hj]ZgbaZ  ijhp_kkZ b ]b]b_gm]m]p]k]l]Z]h]m]f_g]Z  kj_^kl\Z bgnhjfZpbhgguo l_ogheh]bc</p> <p><b>Уметь:</b> ijbf_gylv l]b]q_kdb_ agZgby  i_^Z]h]bq_kdbo aZ^Zq ieZgbjh\Zl]b  hkms_kl\eylv]h]b]q_k]d]b]c ijhp_kk \ jZa  h[jZah\Zl_evguo mqj`^_gbc hij_^_  f_lh^heh]bx ijh\_^_gby i_^Z]h]bq_kd  Z^_d\Zlgh p_ejZfb\Zl]k]q_[gudh]kib]Zl_e  ijhp_kk \u[bjZy khhl\_lkl]mxsb_ nh  kj_^kl\Z _]h hkms_kl\e_gby bkihevah  ^_yl_evghklb b f`ebqghklghf  kh]j_f_ggu_ ^hklb`_gby ikboheh]b  mqblu\Zlv \hajZklgueh]b]m]b]k]b_ hkh  mqZsboky \ i_^Z]h]b]q]k]b]b]kihevah  bgnhjfZpbhggu_ l_ogheh]bb ^e  ijhn_kkbhgZevguo aZ^Zq</p> <p><b>Владеть</b> dZl_]h]bZevguf ZiiZjZlhf i_^Z]f  gZ\udZfb j_r_gby i_^Z]h]bq_kdbo aZ^  ieZgbjh\Zg]b]k]s_kl\e_g]b]Z]ah\Zl_evgh]h  kihkh[Zfb ijh\_^_gby i_^Z]h]bq_kdh]h  nhj]Zfb b f_lh^Zfb hkms_kl]e]h]g]b]y  \h]kib]Zl_evghc ij]Z]h]Z]f]b b f_lh^Zfb</p>

	<p>ikboh^bZ]ghklbdb ebqghklb bamq_gb  ijhn_kkbhgZevghc ^_gZ\evghklbj]Zgba  i_^Z]h]bq_kdhc ^_yl_evghklb k ihabpt  a^hjh\fy\h^ZfphnbeZdlbZjmr_gbc nbab  jZa\b\by b ih\ur_gby Z^ZilZpjhgghj]Zg  f_lh^ZhdZaZig\yh c ^h\jZq_[ghc ifhflhs^Z  ijbf_g_gby bgnhjZpbbhgbdZpbhgguo  \ h[jZah\ZI_evghf ijhp_kk_</p>
<p><b>ОПК-9</b> Kihkh[_g  ihgbfZlv ijbgpbiu  jZ[hlu kh\j_f_ggu  bgnhjZpbbhgguo  l_ogheh]bc b bkih  bo ^ey j_r_gby aZ  ijhn_kkbhgZevghc  ^_yl_evghklb</p>	<p>AgZlv kh\j_f_ggu_ bgnhjZpbbhgguo  ijh]Zffgu_ kj_^kl\Z ijbf_gy_fu_ ijb  ijhn_kkbhgZevghc ^_yl_evghklb  kh\j_f_ggu_ bgnhjZpbbhgguo_l_ogheh  kj_^kl\Z g_h[oh^bfu_ ^ey j_r  ijhn_kkbhgZevghc ^_yl_evghklb &lt;  ijbf_g_gby kh\j_of_bgnhjZpbbhgguo l_og  ijh]jZffguo kj_^kl\ ijb j_r_gbb aZ^Zq  ^_yl_evghklb</p>
<p><b>ПК-3.</b> Kihkh[_g ijbf  kh\j_f_ggu_  bgnhjZpbbhggh  dhffmgbZpbbhgguo  l_ogheh]bb \ mq_  ijhp_kkey ^hklb`_  ieZgbjm_fuo j_am  h[mq_gby</p>	<p><b>Знать:</b> hldjulu_ h[jZah\ZI_evgu_ j_kmj  jZajZ[hldb we_dljhgguo h[jZah\ZI_e  ^hklmiguo we_dljhgguo ie_Zlhm^ujfZich  ^hklh\jghc bgnhjZpbb gZ hkgh\_ B  ijbgpbiu jZ[hlu k hkgh\gufb l_dklh\uf  ]jZnd_kdbfb j_^ZdlhjZfb  <b>Уметь:</b> ijbf_gylv ijbgpbiu b f_lh^u  we_dljhgguo h[jZah\ZI_evguo j_kmj  j_ZebaZpbkihevah\Zlv Bgl_jg_l l_og  ihbkdZ ^hklh\jghc bgnhjZpbb \ p_e  h[jZah\ZI_evguo ijhp_kkey kh\Zlv ijb_f  kh[ex^_gb_ ijZ\be jZ[hlu kh kj_^kl\Zfb  <b>Владеть:</b> gZ\udZfb jZajZ[hldb b j_ZebaZp  ^bkpbiebg \ nhjf_ we_dljhggh]h  j_kmjZ \ jZfdZo hkgh\ghc h[s_]  ijh]jZffu hkgh\gh]h h[s_]kj^g_]h hm  h[jZah\Zgby\udZfb ijbf_g_gby we_dlj  khijh\h`^_gby h[jZah\ZI_evgh]gZ\ujhZ  kha^Zgby gh\uo ^hdmf_glh\ k bkiheva  j_^Zdlhj\</p>

### 3. Содержание дисциплины

#### 1. Развитие цифровых информационных технологий и их обеспечение.

Pbnjh\baZpbbhggh]by <b^u b kljmdljZ bgnh  
l\_ogheh]bc F\_lh^u j\_r\_gby aZ^Zq k bkihevah\Zgb\_f bgnh  
WIZiu bjki\_dlb\ u jZa\b\by pbnjh\uo WIZigghZa\b\by pbnjh\ba  
h[jZah\Zgby PaZbZpb AZdhgh^ZI\_evgZy [Zalzh]pZfrigh\baZ  
h[\_ki\_q\_gb\_

#### 2. Инструментарий цифровых технологий в образовании.

>b^Zdlbq\_kdZy dhgp\_ipby pbnjh\Bgl\_jg\_l l\_og  
pbnjh\h]h ^b^Zdlbq\_kdh]h fZI\_jbZeZl]h\_dlbZpb\_mj^hdvog u  
dhfihggh^bgbc h[jZah\ZI\_evghc]hkfj\_qbke[jZah\ZI\_evgu\_ kZ  
pbnjh\hc ^b^Zdlbq\_kdbchfZlkgbZeb\ k bkihevah\Zgb\_f,hgeZ  
^bklZgpbbhgguo ij\_^f\_lgfuoh\berjkuh\ ijbeh`\_gby \ mq\_[ghf ijhp\_

#### 3. Основы компьютерных телекоммуникаций.





1. Kha^Zgb\_ bgl\_jZdlb\guo mijZ` bgnhgppgZg(2)j\bk\_
2. K\_j\ bknlink.com. pbnjh\u\_ ieZdZlu
3. HgeZzgd\_lbjh\Zgb\_
4. Kha^Zgb\_ pbnjh\uo l\_ljZWize(2)k\_j\bk\_
5. Hpbnjh\dZ ^b^Zdlbq\_kdh(2)h fZI\_jbZeZ
6. <bamZebaZpby bgnhjZpbb \ pbnjh\hf nhjfZI\_ bg@h]jZnb
7. Kha^Zgb\_ dhee\_dpbb pbnjZ\kZ dZ klmjZk\ dZIZeh]hf we\_d  
h[jZah\ZI\_evguo htp:kfmgkdu.ru/. (2).
8. Kh\f\_klgZy jZ[hIZ \ \_^bghc pbnjh\hc kj\_^\_ Hj]ZgbaZpby  
\bjlmZevguo\k(4)

**Тема 3.** Hkgh\u dhfivxl\_jguo l\_e\_dhffmgbdZpbc Hkh[\_gghklb ^b  
h[mq\_gby <b^\_hdhgn\_j\_gpbb b \b^\_h mjhdb \ h[jZah\ZI\_evgh

1. JZ[hIZ k bgkljmZorg.lZfb]Mit ijh\\_^\_gb\_ dhgn\_jh\_gpbb  
mqbl\_AZibkv^\_mjhdZ qZkZ

**Итоговый проект** jZajZ[hldZ b gZiheg\_gb\_ ^bklZg^Zggh]h dmjkZ  
\bjlmZevgh]h GgZkZkZkZiblav mq\_gbdh\ h^g(8)dmjkgbdh\

### Самостоятельная работа

#### Самостоятельная работа

P\_evkZfhklhygheÿZ[hlu± ih^]hjh\kZ\j\_f\_ggh]hfi\_l\_glgh]h  
ki\_pbZebklZnhjfbjh\Zgb\_kihkh[ghklb\_cgZ\udh kZfhh[jZah\Zgbx  
ijhn\_kkbhgZevghfm kh\\_jr\_gkl\h\Zgbx  
J\_ZebaZpby ihklZ\e\_gghc p\_eb ij\_^iheZ]Z\_l\_j\_r\_gb\_ ke\_^mx  
- dZq\_kl\\_ggh\_ hk\h\_cgkdh]hjfZb\_jbZeZ ih bamqZ\_mfhecm^bkpbie  
b jZkrbj\_gb\_l\_hj\_lbq\_kdbo agZgbc  
- kkl\_fZlbaZpby b aZdj\_ie\_gb\_ ihemq\_gguo l\_hj\_lbq\_kdb  
gZ\udh\  
- nhjfbjh\Zgb\_ mf\_gbc ih ihbkdm b bkihevah\ZgbkijZhfZgh\gh  
b ki\_pbZevghc ebl\_jZlmju Z lZd`\_^jm]bo bklhqgbdh\ bgnhjfb  
- jZa\blb\_ ihagZ\ZI\_evguo kihkh[ghkl\_c b Zdlb\ghklb l\  
kZfhklhyl\_evghklb hl\\_lkl\\_gghklb b hj]Zgbah\Zgghklb  
- nhjfbjh\Zgb\_ kZfhklhyl\_evghklb fure\_gby ZkhjZa\g hkl\_c  
kZfhh[jZah\Zgbx kZfhkh\\_jr\_gkl\h\Zgbx b kZfhj\_ZebaZpbb  
- jZa\blb\_ gZmkqg^h\ZI\_evkdbo gZ\udh\  
- nhjfbjh\Zgb\_ mf\_gby j\_rZlv ijZdlbq\_kdb\_ aZ^Zqyl\_evjghk\lkb  
bkihevamy ijbh[j\_l\_ggu\_ agZgby kihkh[ghklb b gZ\udb

**Доклады по следующим темам и вопросам для обсуждения:**

#### Тема 1. Развитие цифровых технологий и их обеспечение.

Kh^\_j`Zgb\_ pbnjh\psa\_ZqdbZ

<hijhku ^ey h[km`^\_gby

1. l\_jki\_dlb\u aZdhgh^ZI\_evgy- [jZaZ\Zgh [ZaZ\gh]eZf\_glbj  
^\_yl\_evgh[kjZah\ZI\_evguo mqj`^\_gbc \ jZfd [Zg apb\Zjgh]p a
2. Bgl\_jg\_l b ijh[e\_fZ ihablbg]hc^bgl\_jg\_l

#### Тема 2. Инструментарий цифровых технологий в образовании.

Pbnjh\Zhf\_i\_l\_glghklv b ijhn\_kkbhgZevgh\_ jZa\blb\_

<hijhku ^ey h[km`^\_gby

1. F^bcgZy b bgnhjZpbggZy jZfhlgghklv \ mkeh\byo  
l\_ogheh]bc
2. AZjm[\_`guc hiul ijbf\_g\_gby bgnhjZpbggguo b dh  
l\_ogheh]bc \ h[jZah\Zgbb

- Pbnjh\Zy dhfi\_l\_glghklvgZmq\_kl\_oeZv\Zji]ZgbaZpby mq\_[g  
ijhp\_kkZ mijZ\e\_gbdZ jZah\Zpbq\_kdh]h ifZZgbbZegb\_  
mq\_[gh]h ijhp\_kkZ\Zgb\_ b dhg\_ljhevo ^hklb`\_gbc l\_dr  
blh]h\uo j\_amevlZih\ hk\h\_gby hkggh\ghc h[jZah\ZI\_evgr

**Тема 3. Основы компьютерных телекоммуникаций**

Pbnjh\\_l\_e\_dhffmgijhZpbZ h[mq\_gby

<hijhku ^ey h[km`^\_gby

- Hldjulu\_ h[jZah\ZI\_evgr\_ j\_kmjku ^ey h[mq\_gby gZ ijh
- Bgkljmf\_glu we\_dljhggh]h h[jZah\Zgby fh[bevgg\_ l\_ogheh]bb \ h[jZah\Zgbb khpbZevgr\_ f\_^bZ

**Тема 4. Роли и функции педагога в цифровом образовательном процессе профессионального образования.**

**Автоматизированные информационные системы**

<hijhku ^ey h[km`^\_gby

- .Hkggh\gu\_ ihgyly deZkkbnbdZpby. hibkZgb\_ b ijbf\_ju
- HjjZgbaZpby\_^bghc bgnhjZpbhgghc kj\_^u mq\_[gh]h a
- H[ahj :Bkhkkbckdbo rdheZo
- <hafh`ghklb nmgdpbZ[hBKmqbl\_ey
- <hafh`ghklb nmgdpbZ[hBKljZlb\ghc jZ[hI\_>hdeZ^u ijbkueZxlky gZ ijh\Mjddte. \ kbkl\_fm

**6. Критерии оценивания результатов освоения дисциплины (модуля)**

**6.1. Оценочные средства и критерии оценивания для текущей аттестации**

L\_dmsbc dhgljhev ijh\h^blky gZ ijZdlbq\_kdbo aZgylybo \h  
ij\_ih^Z\ZI\_e\_f \ khhI\\_lkl\bb k jZkibkZgb\_f aZgylybc  
kZfhklhyl\_evghc jZ[hlu h[mqZxsboky [\_a ijbk rklkh\kby ^jm\_xb^  
ijh\\_jdhc j\_amevlZih\ ij\_ih^Z\ZMoodle.f \ kbkl\_f\_  
L\_dmsbc dhgljhev \uihegy\_lky \ oh^\_ \uiheg\_gby b aZsblu

**Критерии оценивания выполнения практических работ:**

1.

<i i	KljmdlmjgZy qZklv jZ	Dhebg_kl\h [*Zee
1	lhykg_gb_ ihjy^dZ \uiheg ih l_f_ jZ[hkhh[u ijbfb l_ogheh]bb	[Zee
2	>_fhgkljZpby \uiheg_gby aZ^Zgby ij_^eh`_ggh kZfhklhyl_evgh]h j_r_g ijZdlbq_kZhl_	[ZeeZ

k \hafh`ghklvx jjZ^Zpbb ^h [ZeeZ

2.

RdZep\_gb\Zgby Hp\_gdZ @ZZqb\_ggkZpZlm \uklZ\ey\_lky  
gZ[jZgh g\_ f\_g\_\_ [Zeeh\ \ ijhIb\ghf kemqZ\_ aZ jZ[hlm \u

**Пример задания:**

GkZcl\_ /HDDQSV khagZcjZdlb\guo mijZ`g\_gby jZaguo lbiH\  
AZ^Zgbye`gukhijh\h`^ZyvdZjlbgdZfb \b^\_hnjZ]f\_gIzfb k  
\hijhZfb

**Критерии оценивания**

- < hlq\_l\_ ijZdlbq\_kdhc jZ[hlu ^he`gu [ulv ij\_^klZ\e\_gu
- hibkZgby bkihevam\_fhc l\_ogheh]bb
  - khhkh[u ijbfb\_g\_gby
  - jZajZ[hIzggu\_ fZI\_jbZeu d aZgylybx

**6.2. Оценочные средства и критерии оценивания для промежуточной аттестации**



### Пример оценочного средства для промежуточной аттестации

>ey ihemq\_gby aZq\_lZ g\_h[oh^bfh \uiheg\_gg bdb h} b^u fZ [ihhu  
y\ey\_lky h[yaZl\_evghf \kfhifjhgplu^mjhqf sZxkglrkmgZ\_i\_j\hf aZgy  
ih ^bkrpbieGZ\_jhke\_^gbo aZgylbyo ijhbkoh^bl aZsbIZ ijh\_dIZ

#### Проектное задание:

Kha^Zcl\_ dmjk ih kh[kl\\_gghc l\_fZlbd\_ \ \*RRJOH &ODVVURRP

Dmjk ^he`\_g

1. kh^\_j`Zlv g\_ f\_g\_\_ l\_f
2. \dexqZpbnjh\uo\_ fZl\_jbZeu
  - ^hdmf\_glu k bgkljmdpbyfb
  - ij\_a\_glZpbb
  - kkuedb gZ \b^\_h
  - kkuedb gZ \g\_rgb\_ j\_kmjku
  - kha^Zggluc^\_glhf bgl\_jZdlb\guc ^b^Zdlbq\_kdbc fZl\_jbZeu
3. kh^\_j`Zlv g\_ f\_g\_\_ aZ^Zgbc

#### Критерии оценивания итогового проекта:

lhdZaZl\_ eb b djbl\_jbb hp\_gdb  
ihghlZ \uiheg\_gby^hdZ^Zgbc[Zeeh\  
kh[ex^\_gb\_ lj\_[h\Zgbc chkljmbdlm[Zeeh\  
kh[ex^\_gb\_ lj\_[h\Zgbc d baeh`\_hg b x^fZl\_[ZeeZ\  
RdZeZ hp\_gdb[h\Zgb\_ g\_ \uiheg\_gg[hZgb\_ \uiheg\_gh #Zklbqgh  
lj\_[h\Zgb\_ \uiheg\_gh gh \_kly\_gh\Zgblueg\_gh  
ljb wlhf @aZql\_gh^ klZ\blky \_ke b kbm[Zeeh gZ[jZe hl

#### Критерии получения зачета

AZq\_l \uklZ\ey\_lky ih j\_amevlZIZf jZ[hlu klm^\_glZ \ l\_  
lhev`\_gbx h l\_dms\_f dhgljhe\_ mki\_\Z\_fhklb b ijhf`\_mlhqqghc  
n\_^\_jZevghf ]hkm^Zjkl\\_gghf [x^`\_lghf h[jZah\ZI\_evghf m  
ijhn\_kkbhgZevgh]h h[jZah\Zgby @Kfhe\_gkdbc ]hkm^Zjkl\\_gg  
hl )

AZq\_l \uklZ\ey\_lky ih blh]Zf ijZdlbq\_kdbo Zm^blhjgu  
mki\_\Z\_fhklb Z lZd`\_ gZ hkgh\\_ ij^klZ\egguo h[mc  
kZfhklhyl\_evghc jZ[hlu hlq\_lh\ ij^mkfhlj\_gguo jZ[hq\_c ijh

**Зачтено.** Knhjfbjh\Zgu agZgby mf\_gby kihkh[ghklv ij  
pbnjh\uo l\_ogheh]bc

1. \uihegbe ijZdlbq\_kdb bciheghf h[t\_f\_
2. \uiheg\_g blh]h\uc ijh\_dl
3. gZebqb\_ qlh khhl\\_lkl\\_m\_l hp\_gd\_ @m^h\e\_l\h  
ijZ\bevgh \uiheg\_gguo aZ^Zgbc ij^klZ\egguo \k\_ fZl\_jbZeu  
jZ[hlu

**Не зачтено:** klm^\_gl g\_ \uihegbe ijZdlbq\_kdbc dmjk \ ih  
\uihegbe aZ^Zgby ^ey kZfhklhyl\_evghc jZ[hlu

## 7. Перечень основной и дополнительной учебной литературы

### 7.1. Основная литература

1. =Z\jbeh\ FBgkhjZlbdZ b bgnhjZpbhggu\_ l\_ogheh]bb  
ijbdeZ^gh]h [ZdZeZ\jbZIZ F < =Z\jbeh\ba^ :i\_D\_ejZ[h\b^2  
^ FhkdlZ Ba^ZI\_evkl\h XjZcl k ^2<ukr\_\_ h[jZah\ZsbN\_ ^2

978-5-534-00814-2. <sup>2</sup> L\_dkl we\_dljhguc W;K XjZcl  
URL: <https://www.biblio-online.ru/bcode/431772>

2. Q\_jldh\Z Dhfvxl\_jgu\_l\_ogheh]bb h[mq\_gby mq\_[gbd  
Q\_jldh\Z-<sup>2</sup>ba^ bkij F^hd\Z Ba^Zl\_evkl\h XjZcl<sup>2</sup>  
Mgb\\_jkb\_lu JhKBN978-5-534-07491-8. <sup>2</sup> L\_dkl we\_dljhguc  
XjZcl >kZcl URL: <https://www.biblio-online.ru/bcode/437244>

### 7.2. Дополнительная литература

1. Dbk\_e\_\Z F I KZfZjbgZ : ? BgnhjfZlbdZ Dhfvxl\_jguc  
Dbk\Z F I KZfZjbgZ : ? Kfh\h\_kkde=Ba^

### 7.3. Перечень ресурсов информационно-телекоммуникационной сети «Интернет»

1. We\_dljhguc \ZjbZgl ijZdjZ[ch\_kdbidh dmjkm gZ  
<https://cdo.smolgu.ru/course/view.php?id=23>.
2. N\_^\_jZevguc p\_glj bgnhijZabhzlghevguo-<http://rcjkr.edu.ru/>

### 8. Материально-техническое обеспечение

Mq\_[gZy Zm^blhby ^ey ijh\\_e^\_dgbbyh ggzngylbcc ijZdllbiZ\_kdh  
]jmiih\uo b bg^b\b^mZevguo dhgkmevlZpbc l\_dms\_]h dh  
Zll\_klZpbb hkgZs\_ggZy ke\_^mxsbf d]h\_jm^hf\Z g\_b\_jg\_uZ m^eZkk  
dhfvxl\_jgkulm^\_gg\_kdbc kllhe dhfvxl\_jguc klhe ^ey ij\\_ih^Z\Zl  
ijh\\_dlhj #l dZn\_^jZ ^ey erldlhjZk#Z gZkl\_ggZy  
lhf\_s\_gb\_ ^ey kZfhklhyl\_eZgh^c jZ[hru #dhji

### 9. Программное обеспечение

Microsoft Open License (Windows XP, 7, 8, 10, Server, Office 2003-2016),  
Ebp\_ggZy 20093 h 24.05.2016, \_`\_]h^gh\_ h[gh\\_e\\_gb\_  
Microsoft Open License (Windows XP, 7, 8, 10, Server, Office 2003-2016),  
Ebp\_gaby hl \_`\_]h^gh\_ h[gh\\_e\\_gb\_  
Kaspersky Endpoint Security ^ey [bag\_kZ KIZg^Zjlguc  
Ebp\_ggZy \_`\_]h^gh\_ h[gh\\_e\\_gb\_

**Электронные библиотечные системы и электронная информационно-образовательная среда**

We\_dljhgZy [b[ebhl\_qgZy kbkl\_fZ ©W;K XJ:CL<sup>a</sup> >h  
\_`\_]h^gh\_ h[gh\\_e\\_gb\_  
K>H Jmkkdbc 0RRGOH ./ 1RUP k l\_ogfbq:dkdφZ h[k\_e^mZφ  
ijZ\ <ML>X hl \_`\_]h^gh\_ h[gh\\_e\\_gb\_