

7UDYLV' %R\FH  
8QLYHUVLW\ RI 1RUWKHUQ & RORUDGR  
& ROOHJH RI +XPDQLWLHV DQG 6RFLDO 6FLHQFHV  
(PDL7UDYLV %R\FH#XQFR HGX

(GXFDWL RQ

3K' 2KLR 8QLYHUVLW\  
\$UHD RI 6WXG\ & XOWXUDO 6WXGLHV

0\$ 2KLR 8QLYHUVLW\  
\$UHD RI 6WXG\ +LVWRU\

%\$ &ODIOLQ 8QLYHUVLW\  
\$UHD RI 6WXG\ +LVWRU\

3URIHVVL RQDO \$FDGHPLF ([SHULHQFH

\$VVRFLDWH 3URIHVVRU 8QLYHUVLW\ RI 1RUWKHUQ & RORUDGR

\$VVLVWDQW 3URIHVVRU 8QLYHUVLW\ RI 1RUWKHUQ & RORUDGR

5RQDOG 0F1DL U0 rg( U0 rgg( U0 rgg( U0 rgg( U0 UTm /F3 μ6 0 Gg( U0 UTm /F3 μ6 0 Gg( U0 U

5DFLVP DQG 'LVFULPLQDWLRQ LQ WKH 6SRUWLQJ :RUOG

%R\FH 7 &KXQQX : ,Q WKH :RUGV RI WKH ^/DVW 5KRG  
6RXWK &DUROLQD\ /RQJ 7UDGLWLRQ RI :KLWH 6XSUHPDF\  
9LJLODQWHLWHPQW 7HQVH \$ -RXUQDO RI 5KHWRULF LQ 6RFLH

&KXQQX %UD\GD : %R\FH 7 6R \RX UHDOO\ ZDQW WR  
^VHQVLWLYH\ TXDOLWDWL YQWUHHVQHDDW\LFRKQIDQW-HRUQYULQHDZQ QRJI 4X  
5HVHDUFK OHWKRGV

%R\FH 7 7RS %UDVV 3ROLVKLQJ 2WKHU 3HRSOH\ /%UD  
ODUUHG /HJDF\ RI DQ \$IULFDQ \$PHULFDQ FROOHJH SUHVLGH  
± 7KH -RXUQDO RI 3DQ \$IULFDQ 6WXGLHV

\$OOHQ 4 %R\FH 7 /LNH )DWKHU /LNH 6RQ" 5HIOHFWL  
DQG \*HQHUDWLRQDO &RORFXHSQNDLOR QM\$RUELDQ \$PHULFDQ 0DO  
(GXFDWLRQ

&KXQQX %UD\GD : %R\FH 7 &KLOGV ) 1R :RPDQ 1R  
+HOP RI %ODFN 6WXGLHV RDXW\Q\DRR\\$Q\IDQH\\$MLWFDQ 6WXGLHV

%R\FH 7 &KXQQX %UD\GD : 1RW REOLJDWHG WR EH R  
-DPDLFDQ DQG 6RXWK &DUROLQD\ QRHKQJQDOWBRQDQ \$IHULG BQ  
6WXGLHV

%RRN

%R\FH 6WHDG\ DQG 0HDVXUHG 7KH %LRJUDSK\ RI %HQHQHU &  
&DUROLQD 6WDWH &ROOHJH

%R\FH 7 &KXQQX +LVIWRSUHV]V\QXQICDHW &2 8QLYHUVLW\ 3U  
&RORUDGR

%RRN &KDSWHU

%R\FH 7 &KXQQX : +HLOPHLU % LQ SUHVV ,Q 'UV .PV  
'RXJODV ^/GRPH RI 2XU +LVWRULFDQ 6WRQHV DUH 5RXJK DQ  
/RRN \$W %XW 7KH\ \$UH 2XUV ¶ 3XVKLQJ 7%DFN \$JDLQVW V

%R\FH 7 &KXQQX %UD\GD : )HDU )DFWRU :KHQ %ODF  
OLOLWDQW ,Q 1RYRWRQRFX\BZQWQDH W\SH %ODFHINH\Q\SRQLHQF  
1RUWK &DUROLQD 0F)DUODQG 3UHVV

%R\FH 7 &KXQQX %UD\GD : , VKDOO QRW EH PXIIOH  
WKH ORVW \$IULFDQ \$PHULFDQ FRQJUHVVPDQ ± ,Q 0DV  
%HIRUH 2EDPD \$ UHDSSUDLVDO RI %ODFN R5QFRQS/SWUXFWLF  
6DQWD %DUEDUD &DOLIRUQLD \$%& &/,2

%RRN 5HYLHZ

%R\FH 7 \$UWKXU \$VKH 7HQQLV DQG -XVWLW\K H\Q W\K\Q&LYLC  
SS -RXUQDO RI \$IULFDQ \$PHULFDQ +LVWRU\

%R\FH 7 %URRN 7LJHUV LQ WKH 7HPSHVW 6DYDQQDK 6WD  
6WUXJJOH IRU &W\K\Q G5LJ\K\Q\OV SS &KDUOHVWRQ

&DUROLQD +LVWRULFDO 0DJD]LQH

%R\FH 7 &KXQQX %UD\GD RI GHVHJUHJDWLRQ - \$ 'H /DLQH  
%ULJJV Y (OOLRW E\ 2SKHOM\DHGH /DRQH \*RQS  
1HJUR (GXFDWLRQ -RXUQ

&KXQQX %UD\GD : %R\IE\W\RLULFDOD\ %ODFN FROOHJHV DQG  
HQF\FORSHGLD E\ ) (ULN %URRNQGDHQGG \*DRQQ / 6\W\DU  
-RXUQDO RI 1HJUR (GXFDWLRQ

&RQIHUHQFH \$EVWUDFW 3URFHGLQJ

%R\FH 7 ³μ, +RSH , 'RQ\PW \*HW .LOOHG IRU %HLQJ %ODFN 7R  
OHGLD RQ 6W\OH DQG )DVKLRLQ LQ WK\SS\$JH RI ,Q\W\DU  
/WG

/HVVRQ 3ODQ

%R\FH 7 &KXQQX %UD\GD 2UDQJHEXUJ DRVDF\\$ULFDQ  
\$PHULFDQ 6WXGLHV &HQWHU  
ZZZ R[IRUGDDVF FRP FRQWHQW OHVVRQBSODQV OHVVRQBS

2WKHU 3XEOLFDWLRQV

%R\FH 7 %UD\GD : 0 (DUOH :LOOLH ,Q +HQU\ /RXLV \*DWH  
+LJJLQERWK\\$IRULFDQ \$PHULFDQ 1DW2\IRRQUDQ 8QLLRYHJDVSLK\ 3UH

%R\FH 7 %UD\GD : 0 LQ SUHVV :KLWWHQEHUJ \$ - ,Q +H  
%URRNV +LJJLQE\\$IRW\KIDBPQ (\$PHULFDQ 1DW2\IRRQUDQ 8QLLRYHJDVSLK\  
3UHVV

%R\FH 7 &KXQQX %UD\GD : 0 0F1HLO -RVHSK ,Q +H  
(YHO\Q %URRNV +LJJ\\$QUELRFWDQD\$PPH\GLFDQ 1DW2\IRRQUDQ %L RJUD  
8QLYHUVLW\ 3UHVV

%R\FH 7 &KXQQX %UD\GD : 0 LQ SUHVV )LQH\ (UQHVW  
(YHO\Q %URRNV +LJJ\\$QUELRFWDQD\$PPH\GLFDQ 1DW2\IRRQUDQ %L RJUD  
8QLYHUVLW\ 3UHVV

%R\FH 7 &KXQQX %UD\GD : 0 LQ SUHVV \*DLQHV /OR\G /  
(YHO\Q %URRNV +LJJ\\$QUELRFWDQD\$PPH\GLFDQ 1DW2\IRRQUDQ %L RJUD  
8QLYHUVLW\ 3UHVV

%R\FH 7 7XUQHU %HQQHU & ,Q +HQU\ /RXLV \*DWHV -U  
+LJJLQERWK\\$IRULFDQ \$PHULFDQ 1DW2\IRRQUDQ 8QLLRYHJDVSLK\ 3UH

%R\FH 7 &KXQQX %UD\GD : 0 :KLWWDNHU OLOOHU )  
(YHO\Q %URRNV +LJJ\\$QUELRFWDQD\$PPH\GLFDQ 1DW2\IRRQUDQ %L RJUD  
8QLYHUVLW\ 3UHVV

1RQ MXULHG

%RRN &KDSWHU

%R\FH 7 LQ SUHVV ,Q WKH )RRWVWHSV RI P\ )DWKHU ,Q 7  
(G +%&8 ([SHULHQFH 7KH %RRN

%RRN 5HYLHZ

%R\FH 7 &KXQQX %UD\GDPLQ (OLMDK 0D\V 6FKRRO 0DVW  
ORYHPHQW \$ %LWRWUHSK\YRO SS 6RXWK &DUROLQD  
ODJDJLQH

3URIHVVLRQDO 3UHVHQWDWLQRQV

,QYLWHG

-XULHG

%R\FH 7 \$XWKRU 3UHVHQWHU %XUFKHW 6 \$XWKRU 3  
&XOWXUH \$VVRFLDWLRQ UHDWLQJ DQ ,FRQ 7KH ,FRQRJUD  
\$OEXUTXHUTXH 1HZ 0H[LFR )HEUXDU\

%R\FH 7 \$XWKRU 3UHVHQWHU )LOP DQG +LVWRU\ &RQ  
\$P 2- 2- 6LPSVRQ 5DFH DQG D 6HQVH RI +RPH LQ &RQW  
6RFLHW\ LQ 2- 0DGH LQ \$PHULFD ' 1RYHPEHU

%R\FH 7 \$XWKRU 3UHVHQWHU )DVKLRQ DQG 0HGLD +LVW  
V\PSRVLXP ^, +RSH , 'RQ\PW \*HW .LOOHG IRU %HLQJ %ODF  
0HGLD RQ 6W\OH DQG )DVKLRQ LQ WKH \$JH RI %ODFN/LYHV  
3KLODGHO SKLD 3\$ 2FWREHU

%R\FH 7 \$XWKRU 3UHVHQWHU 3RSXODU &XOWXUH \$VVRFL  
=HDODQG WK \$QQXDO ,QWHUQDWLRQDO &RQIHUHQFH ^  
6RFLDO 0HGLD DV D 6WUDWHJ\ WR 7HDFK WKH +LVWRU\ RI  
&RQGHPQDWLRQ RI \$IULFDQ \$PHULFDQ \$FWLYLVWV \$WKOHW  
:HOOLQJWRQ 1= -XO\

%R\FH 7 \$XWKRU 3UHVHQWHU \$VVRFLDWLRQ IRU WKH 6W  
+LVWRU\ \$QQXDO 0HHWLQJ DQG &RQIHUHQFH ^  
7KRPDV 0LOOHU DQG WKH ^5H\FRQVWUXFWLRQ RI D &ROOH  
9\$ 2FWREHU

%R\FH 7 '\$XWKRU 3UHVHQWHU 1HZ (QJODQG 5HJLRQDO  
^5HVXUUHFWLQJ 5HGHPSWLRQ 3ROLWLFV 5KHWRLUF DQG  
WKH 5HFRQVWUXFWLRQ DQG SRVW 5HFRQVWUXFWLRQ (UDV  
7KH 5LYHUV 6FKRRO ± :HVWRQ 0\$ \$SULO

1RW ,QYLWHG

-XULHG

%R\FH 7 7KH \$VVRFLDWLRQ IRU WKH 6WXG\ RI \$IULFDQ \$PHU  
&RQIHUHQFH 7KH /LIH RI \$ - :KLWWHQEHUJ \$ &LYLO 5LJH  
&DUROLQD 0HPSKLV 7HQQHVWVHH 6HSWHPEHU

%R\FH 7 &KXQQX %UD\GD : ,QWHUQDWLRQDO -RXUQDO RI  
+LVWRULFL]LQJ )HDU 7KH 5DFLDOL]DWLRQ RI 2EDPD\PV

&DPSDLJQ )UHLEXUJ \*HUPDQ\ 'HFHPEHU

%R\FH 7 7KH \$VVRFLDWLRQ IRU WKH 6WXG\ RI \$IULFDQ \$PHU  
&RQIHUHQFH \$Q 32XWVLGHU :LWKLQ' \$Q ([DPLQDWLRQ RI  
([SHULHQFH DW 3KLOOLSV \$FDGHP\ -DFNVRQYLOOH

%R\FH 7 ,QWHUQDWLRQDO -RXUQDO RI \$UWV DQG 6FLHQFHV  
3ROLVKHV 2WKHU 3HRSOH\ %UDVV (YDOXDWLQJ WKH 0DU  
3UHVLGHQW +DUYDUG 8QLYHUVLW\ &DPEULGJH 0VVDFK

%R\FH 7 \*ORYHU 7 .HHQ 5 :HVWHUQ 6RFLDO 6FLHQFHV \$V  
6L[W\ <HDUV RI +RSW DQG 5HVLVWDQFH \$ 5RXQGWDEOH 'L  
/HJDFLHV RI WKH %URZQ 'HFLVLRQ 'HQYHU &RORUDGR \$

%R\FH 7 6RFLHW\ IRU &LQHPD DQG 0HGLD 6WXGLHV \$QQXDO  
:KHQ %ODFN (TXDOLW\ LV )UDPHG DV 0LOLWDQW &KLFDJR

%R\FH 7 0DUVWRQ & WK \$QQXDO (PEUDFLQJ &RPPXQLW\ O  
&RPPXQLW\ (QJDJHPHQW (PSKDV LV 1HZ 0DMRU 8QLYHUVL  
\*UHHOHOH\ &RORUDGR 1RYHPEHU

%R\FH 7 &KXQQX %UD\GD : 1DWLRQDO &RXQFLO IRU %ODFN  
&RQIHUHQFH 6R <RX 5HDOO\ :DQW WR ,QWHUYLHZ OH" ,QV  
4XDOLWDWLYH 5HVHDUFK 0HWKRG \$WODQWD \*HRUJLD 0

%R\FH 7 0DUVWRQ & WK \$QQXDO (PEUDFLQJ &RPPXQLW\ O  
&RPPXQLW\ (QJDJHPHQW (PSKDV LV 1HZ 0DMRU 8QLYHUVL  
\*UHHOHOH\ &RORUDGR 1RYHPEHU

%R\FH 7 %LUQEDXP 0 \$OOHQ 4 1DWLRQDO \$VVRFLDWLRQ  
\$GPLQLVWUDWRUV 1\$63\$ 5HJLRQ ,9 :HVW &RQIHUHQFH 7  
SHUIRUPDQFHV DQG FRQVXPSSWLRQ RI %ODFN PDVFXOLQLW\ O  
3:,V 'HQYHU &RORUDGR 1RYHPEHU

%R\FH 7 &KXQQX %UD\GD : \$VVRFLDWLRQ IRU WKH 6WXG\  
+LVWRU\ , VKDOO QRW EH PXIOHG KHUH 7KRPDV ( 0LO  
FRQJUHVVPDQ ± 5LFKPRQG 9LUJLQLD 2FWREHU

%R\FH 7 &DQDOHV \* 6DHQ] % \$OOHQ / WK \$QQXDO 6X  
'LYHUVLW\ 6SHDNLQJ XS DJDLQVW UDFLVW UHPDUNV 2QH  
8QLYHUVLW\ RI 1RUWKHUQ &RORUDGR \*UHHOHOH\ &RORUDGR

%R\FH 7 WK \$QQXDO <DOH±%RXFKHW &RQIHUHQFH RQ 'LYH  
\$QQXDO &RQIHUHQFH %HQHQH & 7XUQHU 7KH 3KLOOLSV  
<DOH 8QLYHUVLW\ \*UDGXDWH 6FKRRO RI \$UWV DQG 6FLHQF  
0DUFK

%R\FH 7 0LG :HVWHUQ (GXFDWLRQDO 5HVHDUFK \$VVRFLDWLRQ  
DJDLQVW WKH OLWHUDWXUH 7KH SRUWUD\DO RI \$IULFDQ \$  
KLVWRULFDOO\ EODFN FROOHJHV DQG XQLYHUVLWLHV LQ P  
2FWREHU

%R\FH 7 &DQDOHV \* WK \$QQXDO 6XPPLW RQ 6RFLDO -XVW  
7HDFKLQJ VRFLDO MXVWLFH WKURXJK WKHDWUH 8QLYHUVLW\  
&RORUDGR \$SULO

% R \ F H 7 8 Q L Y H U V L W \ R I 1 R U W K H U Q & R O R U D G R ¶ V V W \$ Q Q X D

%R\FH 7 :ULWLQJ D :LQQLQJ \$EVWUDFW IRU WKH +XPDQLWL  
5HVHDUFK 8QLYHUVLW\ RI 1RUWKHUQ &RORUDGR 0LFKHQH

%R\FH 7 ORGHUDWRU 7KH /HDGHUVKLS \$OOLDQFH 1DWLRQ  
2ULHQWDWLRQ 1HWZRUNLQJ )XQGLQJ 6HVVLRQV IRU +XPDG  
6WDPIRUG &RQQHFWLFXW -XO\

%R\FH 7 5HDG ,Q +RQRULQJ %ODFN \$PHULFDQV RI WKH 3D  
/LEUDU\ 8QLYHUVLW\ RI 1RUWKHUQ &RORUDGR )HEUXDU\

%R\FH 7 3UHVLGHQWLDO 6FKRODUVKLS %DQTXHW 8QLYHUV

%R\FH 7 ORGHUDWRU 7KH /HDGHUVKLS \$OOLDQFH 1DWLRQ  
2ULHQWDWLRQ 1HWZRUNLQJ )XQGLQJ 6HVVLRQV IRU +XPDG  
+DUWIRUG ODUULRW &RQQHFWLFXW -XO\

%R\FH 7 ORUWDU %RDUG &ROOHJLDWH +RQRU 6RFLHW\ ,QGX  
1RUWKHUQ &RORUDGR \$SULO

%R\FH 7 &KDLU 7KH 1DWLRQDO &RXQFLO IRU %ODFN 6WXG  
(QVODYHPHQW ,GHQWLW\ 0HPRU\ \$WODQWD \*HRUJLD

%R\FH 7 3DQHOLVW LJKHU (GXFDWLRQ DQG 6WXGHQW \$IID  
%DJV /XQFKHV RQ 5HVHDUFK 7KH µHVVHQWLDO]HG¶ SHUI  
%ODFN 0DVFXOLQLW\ 6HSWHPEHU

%R\FH 7 ORGHUDWRU 7KH /HDGHUVKLS \$OOLDQFH 1DWLRQ  
2ULHQWDWLRQ 1HWZRUNLQJ )XQGLQJ 6HVVLRQV IRU +XPDG  
\*UHHQZLFK &RQQHFWLFXW -XO\

%R\FH 7 %ODFN +LVWRU\ 0RQWK /HDGHUVKLS LQ WKH 7LPH  
\$IULFDQ \$PHULFDQ &ROOHJH 3UHVLGHQW WR SUHVHQW  
&HQWHU )HEUXDU\

%R\FH 7 /HDGHUV (QJDJLQJ LQ \$FWLRQ WKURXJK 3DVVLRQ  
\$OOHQ / &DQDOHV \* %R\FH 7 2QH 'D\ 8QLYHUVLW\ 6RF  
&RORUDGR -XO\

%R\FH 7 3DQHOLVW 7KH /HDGHUVKLS \$OOLDQFH 1DWLRQDO  
DQG &DUHHU 3DQHO (DVW %UXQVZLFN 1HZ -HUVH\ -XO\

%R\FH 7 3DQHOLVW 6HVVLRQ,,, &ORVLQJ WKH \$FKLHYHPH  
WKH \$IULFDQ \$PHULFDQ (GXFDWRU &ULVLV 7KH \$IULFDQ \$

%R\FH 7 &KDLU 7KH 1DWLRQDO &RXQFLO IRU %ODFN 6WXG  
3V\FKRORJ\ RI \$IULFDQ 3HRSOH :RUOG 9LHZ 5DFLDO 6RFL  
&RQVWUXFWLRQ 1HZ 2UOHDQV /RXLVLDQD 0DUFK

%R\FH 7 &KDLU 7KH 1DWLRQDO &RXQFLO IRU %ODFN 6WXG  
\$IULFDQ %HOLHIV ORGHUQ 3UDFWLFHV \$QFLHQW 5RRWW

5HVHDUFK LQ 3URJUHVV

) DVKLRLQ 6W\OH \$HVWKHWLFV DQG %ODFN /LYHV 0DWWHU 2Q \*  
, DP D JXHVW FR HGLWRU IRUD VSHFLDO LVVXH LQ WKH )DVKLRLQ  
WHQWDWLHYH SXEOLFDWLRQ 6SULQJ )XOO PDQXVFULSWV D

6WHDG\ DQG 0HDVXUHG 7KH %LRJUDSK\ RI %HQQHU & 7XUQHU 3  
&ROOHJH ± 2Q \*RLQJ  
0\ ERRN SURMHFW , DP ZRUNLQJ ZLWK WKH 8QLYHUVLW\ RI \*HR  
LQWHQG WR KDYH WKH PDQXVFULSW FRPSOHWHG E\ ODWH

\* 5 \$ 1 7 6

) XQGHG

%R\FH 7 /LIH RI WKH 0LQG 6FKXO]H ,QWHUGLVFLSOLQDU\ 6SHDN  
RI 1RUWKHUQ &RORUDGR )HEUXDU\ 0DUFK

%R\FH 7 &ROOHJH RI (GXFDWLRQ 5HVHDUFK )XQG IRU 'LVVHUWD  
8QLYHUVLW\ ¶V &ROOHJH RI (GXFDWLRQ \$XJXVW

%R\FH 7 5RQDOG 0F1DLU 6FKRODUV\ 3URJUDP \*UDGXDWH \$VVLV  
8QLYHUVLW\ 6HSWHPEHU

%R\FH 7 8QGHUJUDGXDWH \$GPLVVLQRQV \*UDGXDWH \$VVLVWDQW  
6HSWHPEHU

%R\FH 7 /OR\G \* %DOIRXU )HOORZVKLS 6SRQVRUHG E\ 1RUWK  
)RXQGDWLRQ ,QF -XO\

%R\FH 7 'LYLVLQRQ RI 6WXGHQW \$IIDLUV \*UDGXDWH \$VVLVWDQW  
6HSWHPEHU

%R\FH 7 'HSDUWPHQW RI +LVWRU\ \*UDGXDWH 7HDFKLQJ \$VVLVW  
8QLYHUVLW\ 6HSWHPEHU

%R\FH 7 6XPPHU 8QGHUJUDGXDWH 5HVHDUFK )HOORZVKLS 6SR

1RW ) XQGHG

%R\FH 7 6XPPHU +XPDQLWLHV ,QVWLWXWH 5HVHDUFK )HOORZVKLS  
&DOLIRUQLD /RV \$QJHOHV 8&/\\$ GHFOLQHG -XQH

7 (\$ & + , 1 \*

7HDFKLQJ ([SHULHQFH

8QLYHUVLW\ RI 1RUWKHUQ &RORUDGR

&RXUVHV 7DXJKW

\$)6 , QWURGXFWLRQ WR \$IULFDQD 6WXGLHV FRXUVHV

\$)6 'HYHORSPHQW RI %ODFN ,GHQWLW\ FRXUVH FU  
\$)6 \$IULFDQ \$PHULFDQ +LVWRU\ , FRXUVHV FUHGLW K  
\$)6 \$IULFDQ \$PHULFDQ +LVWRU\ ,, FRXUVHV FUHGLW K  
\$)6 \$IULFDQ \$PHULFDQV DQG 8 6 (GXFDWLRQ FRXUVHV  
\$)6 \$VSHFWV RI WKH \$IULFDQ \$PHULFDQ ([SHULHQFH FRXUVH  
\$)6 &RPPXQLW\ 6WXG\ 3URMHFW FRXUVHV FUHGLW KR  
\$)6 +LVWRU\ RI %ODFNV LQ )LOP FRXUVH FUHGLW KR  
\$)6 \$IULFDQ \$PHULFDQ /HDGHUVKLS DQG 3ROLWLFV FRXUVH  
\$)6 'LUHFWHG 6WXGLHV FRXUVHV FUHGLW KR  
\$)6 6HPLQDU LQ \$IULFDQD 6WXGLHV FRXUVHV FUHGLW  
+21 +RQRUV &RQQHFWRQV 6HPLQDU ,, FRXUVH FUHGLW  
0&6 0XOWLFXOWXUDOLVP LQ WKH 8QLWHG 6WDWHV &RQFHSV  
KR  
626& \$ \*OREDO 3HUVSHFWLYH FRXUVHV FUHGLW KR  
626& 6RFLDO 6FLHQFH DQG +LVWRULFDO 3HUVSHFWLYHV F  
67(3 2EVHUYDWLRQ DQG \$QDO\VLV RI 6HFRQGDU\ 7HDFKLQJ ,  
67(3 2EVHUYDWLRQ DQG \$QDO\VLV RI 6HFRQGDU\ 7HDFKLQJ ,  
67(3 &OLQLFDO ([SHULHQFH 6HFRQGDU\ FRXUVHV FUH  
67(3 6HFRQGDU\ 6WXGHQW 7HDFKLQJ FRXUVH FUHGLW  
1HZ 3URJUDPV 'HYHORSHG 0DMRU 3URJUDP 5HYLVLRQ FRXUVH  
1HZ FRXUVH V \$)6 \$IULFDQ \$PHULFDQ +LVWRU\  
%DUDFN 2EDPD

6(59,&(

8QLYHUVLW\ 6HUYL FH

&RPPHQFHPHQW 0DUVKDO &RPPHQFHPHQW &RPPLWWHH 6HSWHPE

5HSRUW \*HQHUDWHG RQ -XO\ 3DJH RI  
0RPDPXLVLR31 'ORUW U ,%RUUG 6HFQLRQU +RQRUV6RFLDHWX 6HSWHPE

& R (GLWRU 8QGHUJUDGXDWH 5HVHDUFK -RXUQDO  
& RPPLWWHH & KDLU /\$& & DWHJRU\ DQG  
9LFH & KDLU /LEHUDO \$UWV & RXQFLO  
-XGJH )DOO 8QGHUJUDGXDWH 5HVHDUFK 6\PSRVLXP 2IILFH RI 8QC  
1RYHPEHU  
-XGJH )DOO 8QGHUJUDGXDWH 5HVHDUFK 6\PSRVLXP & HQWHU IRU +  
DQG WKH 2IILFH RI 8QGHUJUDGXDWH 5HVHDUFK 1RYHPEHU  
(GLWRULDO %RDUG OHPEHU 8QGHUJUDGXDWH 5HVHDUFK -RXUQDO  
3DQHOLVW )DFXOW\ 6XFFHVV 7LSV 1HZ 6WXGHQW 2ULHQWDWLQR  
3DQHOLVW )DFXOW\ 3DQHO & HQWHU IRU +XPDQ (QULFKPHQW ± 6X  
-XGJH 5HVHDUFK 'D\ \$SULO  
& RPPLWWHH OHPEHU %ODFN +LVWRU\ ORQWK 3ODQQLQJ & RPPLWW  
)DFLOLWDWRU & DWDO\VW \$ 6RFLDO -XVWLFH 5HWUHDW  
& RPPLWWHH OHPEHU 8QGHUJUDGXDWH & RPPHQFHPHQW 6WXGHQW  
)DFXOW\ OHQWRU 5RQDOG 0F1DLU 6FKRODUVT 3URJUDP  
)DFXOW\ 6SRQVRU 5HVHDUFK 'D\ \$SULO  
& RPPLWWHH OHPEHU 0DUWLQ /XWKHU .LQJ -U 3ODQQLQJ & RPPLWW  
& RPPLWWHH OHPEHU 6SRUWV LQ \$IULFD 3ROLWLFV DQG \*OREDOL  
& RPPLWWHH 2KLR 8QLYHUVLW\

## &ROOHJH 6HUYL FH

& RPPLWWHH OHPEHU 'LYHUVLW\ \$GYLVRU\ %RDUG  
%DQQHU %HDUHU +66 )DOO & RQYRFDWLRQ \$XJXVW  
'HSXW\ 0DUVKDOO ± &ROOHJH RI +XPDQLWLHV DQG 6RFLDO 6FLHQF  
& RPPHQFHPHQW 'HFHPEHU  
& RPPLWWHH OHPEHU 8QGHUJUDGXDWH 6XFFHVV & RPPLWWHH 6HS  
& RPPLWWHH & KDLU 'U 'DYLG \$VNHTV & RPSUHKHQVLYH 5HYLHZ  
)DFLOLWDWRU & DWDO\VW \$ 6RFLDO -XVWLFH 5HWUHDW  
& RPPLWWHH OHPEHU 8QGHUJUDGXDWH & RPPHQFHPHQW 6WXGHQW

2QH 'D\ 8QLYHUVLW\ -XO\  
 )DFXOW\ 6SRQVRU 5HVHDUFK 'D\ \$SULO  
&RPPLWWHH OHPEHU 6HOHFWLRQ FRPPLWWHH IRU 8QLYHUVLW\ 3U  
 ± DFDGHPLF \HDU 0DUFK  
 \$\$ (2 H[LW LQWHUYLHZHU IRU (QJOLVK FDQGLGDWH 'HS DUWPHQW  
'HS DUWPHQW 6HUYL FH  
 3URJUDP &RRUGLQDW RU \$IULFDQD 6WXGLHV 3URJUDP  
 3URJUDP 6HUYL FH  
&RPPLWWHH OHPEHU 3URJUDP 5HYLHZ \$VVHVVPHQW &RPPLWWHH  
 \*XHVW 6SHDNHU %URZQ %DJ 'LVFXVVL RQ RQ &ROLQ .DHSHUQLFN  
 7UXPS 2FWREHU  
 3URIHVVL RQDO 6HUYL FH  
 \*XHVW 6SHDNHU \$LPV &RPPXQLW\ &ROOHJH +XP DQ +XP DQ /HF WXU  
 6HSWHPEHU  
 6HVVL RQ &KDLU 7KH /HDGHUVKLS \$OOLDQFH 1DWLRQDO 6\PSRV L X  
 3XEOLF &RPPXQLW\ 6HUYL FH  
 0HPEHU 3RVW .DWULQD 5HFRYHU\ 3URMHFW /RZHU 1LQWK :DUG 1  
 \$:\$5'6 \$1' +21256  
 2WKHU  
 )ULHQG RI &+( \$ZDUG &HQWHU IRU +XP DQ (QULFKPHQW 8QLYHUVL  
 0\ )DYRULWH 3URIHVVRU \$ZDUG \*ROG .H\ &KDSWHU 0RUWDU %RD  
 8QLYHUVLW\ RI 1RUWKHUQ &RORUDGR \$SULO  
 2XWVWDQGLQJ )DYRULWH 3URIHVVRU \$ZDUG 'HOWD ;L &KDSWHU R  
 1RUWKHUQ &RORUDGR 0DUFK  
 )LUVW <H DU 6FKRODUV 2XWVWDQGLQJ )DFXOW\ 7KH 'HDQ RI 6WXG  
 +RXVLQJ DQG 5HVLGHQWLDO (GXFDWLRQ 8QLYHUVLW\ RI 1RUWK  
 7KH /HDGHUVKLS \$OOLDQFH QG 3K 'V /HDGHUVKLS \$OOLDQFH  
 \$XJXVW  
 +QRURDEOH PHQWLRQ 'LYHUVLW\ LQ WKH &ODVVURRP \$ZDUG &RO  
 6FLHQFH V 8QLYHUVLW\ RI 1RUWKHUQ &RORUDGR  
 2XWVWDQGLQJ )DYRULWH 3URIHVVRU \$ZDUG 'HOWD ;L &KDSWHU R  
 5HSRUW \*HQHUDWHG RQ -XO\  
 3DJH RI

1RUWKHUQ &RORUDGR

)LUVW <HDU 6FKRODUV 2XWVWDQGLQJ )DFXOW\ 2IILFH RI WKH 3UR  
'HS DUWPHQW RI 5HVLGHQFH /LIH 8QLYHUVLW\ RI 1RUWKHUQ &R

'RFWRUDO 6FKRODU \$ZDUG 7KH /HDGHUVKLS \$OOLDQFH -XO\