

	G8; g	I B8D	G8; G8; %+ G8; g
	G8; g	% I B8D	G8; g
		%\$ & %+(& & %+ & %& &	

		f15=7	
		=H	

		<p>'</p> <p>&\$(' %</p> <p>% %</p> <p>-% %</p> <p>&- ' %</p> <p>% & %</p> <p><AbYh</p> <p><] fcg\.] aU' AYZ] WU' BYhkcf _</p> <p>%& %</p> <p>B86 BUh] cbU' XUhU' VUgY</p> <p>*' %</p> <p>&& %</p>	

		<p># ,</p> <p>% %</p> <p>% ' ' %</p> <p>- ' ' %</p> <p>& %</p> <p>' ' %</p> <p>%) ' %</p> <p>(' %</p> <p>) ' ' %</p>	
		<p># ,</p> <p>* ' &</p> <p>) ' %</p> <p>% * ' %</p> <p>] DG</p> <p>% + ' %</p> <p>) (' %</p> <p>)) ' %</p> <p>) * ' %</p>	

		" " " " " " "	
		# , - ' % FB5 % - ' % % , ' % , ' % % % + ' % % * ' % %\$ - (' 5A5HM5 J=G<K5' >99H %	

		<p style="text-align: center;"># ,</p> <p>%\$ &</p> <p>%) %</p> <p>%+ %</p> <p>%\$ %</p> <p>%(%</p> <p>%* %</p> <p>&%& %</p>	
		<p style="text-align: center;"># ,</p> <p>'\$ %</p> <p>%%\$ %</p> <p>%% %</p> <p>%%& %</p> <p>'(%</p> <p>(& %</p> <p>%(%</p> <p>%%' %</p>	

		<p># ,</p> <p>% %</p> <p>% %</p> <p>% %</p> <p>(%</p> <p>% %</p> <p>% %</p> <p>% %</p> <p>% %</p>	
		<p># ,</p> <p>% %</p> <p>% %</p> <p>), %</p> <p>% %</p> <p>% %</p> <p>% %</p> <p>-% %</p> <p>% %</p>	

		<p># ,</p> <p>* &</p> <p>) - &</p> <p>%+ &</p> <p>% &</p>	
		<p># ,</p> <p>% %</p> <p>*% %</p> <p>- + %</p> <p>- , %</p> <p>% %</p> <p>% %</p> <p>*\$ %</p> <p>- * %</p>	

,

&%)

&- %

*- &

		>i gh]W#	
	Di V]W<YU h\#		

		h! D5	
)	

7H AF= D9H

=JF

=JF

=JF

F=

		#	
		97AC	97AC
		: =G<	

		CG79	
		fl 七	

		七	fl

		<p>+</p> <p>\$\$\$</p> <p>D] b%</p> <p>%&+</p> <p>hf_! Zi gYX' [YbY' fIH ; t</p>	
		<p>% +</p> <p>* (</p>	

		%&: Vt'ai b] W\W' Y' X] gYUgYz' bcb! Vt'aa'i b] W\W' Y' X] gYUgY %&*' %&' Vt'ai b] W\W' Y' X] gYUgYz' bcb! Vt'aa'i b] W\W' Y' X] gYUgY %&\$' 6] [' XUhU	
		>i gh] W\W# Di V'] W<YU' h\#	

		<p>***</p> <p>%,</p> <p>% -</p> <p>&\$</p> <p>&% <6J</p> <p>&\$%</p>	

		$\&\&$ $\%\$%$ $\%\*	
		$\&'$ $*_+$ $\%\$+$	

		<p>* ' .</p> <p>%\$&'</p> <p>cbY' W' ` ` UbU mg] g</p> <p>%&-'</p>	
		<p>%\$'</p> <p>* _ ' .</p> <p>*%</p> <p>%&%/</p> <p>%ot+' .</p> <p>%&&'</p> <p>%&' .</p> <p>%&(' .</p> <p>%&)' .</p>	

		$\&^*$ $^*\$$	
		$\&+$ $+%$	

		& +& %\$ % \$	FH D7F
		%% %\$)	F=

		+(
		+)'	
		97AC	
		'\$	
		8D7	
		'%	
		<=:	

			+* %\$ ž

		fl 七	
		% (
		%)	
		% +	
		% *	

		&% %* &- . % %	
	9b[`] g\` DfYgYbhUh] cb	% &	%

	G8; g	IB8D	G8; G8; %+ G8; g
	G8; g	% IB8D	G8; g
		%\$` %+(` %+` %\$`	& & & &

		f15=7	
		=H	

		<p>'</p> <p>&\$(' %</p> <p>% %</p> <p>-% %</p> <p>&- ' %</p> <p>% & %</p> <p><AbYh</p> <p><] fcg\.] aU' AYY] WU' BYhkcf _</p> <p>%& %</p> <p>B86 BUh] cbU' XUhU' VUgY</p> <p>*' %</p> <p>&& %</p>	

		% &	

		<p># ,</p> <p>% %</p> <p>% ' ' %</p> <p>- ' ' %</p> <p>& %</p> <p>' ' %</p> <p>%) ' %</p> <p>(' %</p> <p>) ' ' %</p>	
		<p># ,</p> <p>* ' &</p> <p>) ' %</p> <p>% * ' %</p> <p>] DG</p> <p>% + ' %</p> <p>) (' %</p> <p>)) ' %</p> <p>) * ' %</p>	

		" " " " " " "	
		# , - % FB5 % - % % , % , % % % + % % * % %\$ - (' 5A5HM5' J=G<K5' >99H %	

		<p style="text-align: center;"># ,</p> <p>%\$ &</p> <p>%) %</p> <p>%t) %</p> <p>% \$ %</p> <p>%(%</p> <p>% * %</p> <p>&%& %</p>	
		<p style="text-align: center;"># ,</p> <p>' \$ %</p> <p>%\$ %</p> <p>%% %</p> <p>%& %</p> <p>' (%</p> <p>(& %</p> <p>%& %</p> <p>%' %</p>	

		<p># ,</p> <p>% %</p> <p>% %</p> <p>% %</p> <p>(%</p> <p>% %</p> <p>% %</p> <p>% %</p> <p>% %</p>	
		<p># ,</p> <p>% %</p> <p>% %</p> <p>), %</p> <p>% %</p> <p>% %</p> <p>% %</p> <p>-% %</p> <p>% %</p>	

		<p># ,</p> <p>* &</p> <p>) - &</p> <p>%+ &</p> <p>% &</p>	
		<p># ,</p> <p>% %</p> <p>*% %</p> <p>- + %</p> <p>- , %</p> <p>% %</p> <p>% %</p> <p>*\$ %</p> <p>- * %</p>	

		<p># ,</p> <p>&%)</p> <p>&- %</p> <p>*) &</p>	

		!	
		“ “ “ “	
		f17H 7H	L f1AF=
		#	

			%\$

		8B5	
)	
		% %	

		<p>% ,</p> <p>% +</p>	
		<p>% &</p>	
		!	

		<p>、ϕ、</p> <p>%、</p>	
		<p>(% 七</p> <p>、&</p>	

		$\begin{matrix} L & f7H \\ fIAF \Rightarrow & 7H \end{matrix}$	
		$YI'j]jc \quad]b'j]hfc$	

		((,(,))' %\$' %%% % (%) % *' % +' %, ' % - ' %\$'	

		<p>()</p> <p>,</p> <p>*</p> <p>%&</p> <p>%</p> <p>%</p> <p>%&</p> <p>%'</p> <p>%('</p>	

		5@G	
		&% %* &- . % %	
		&% %+,	

	9b[`]g\` DfYgYbhUh] cb	% &	%

	G8; g	IB8D	G8; G8; %+ G8; g
	G8; g	% IB8D	G8; g
		%\$ & %+(& & %+ & %& &	

		f15=7	
		=H	

		<p># ,</p> <p>% %</p> <p>% ' ' %</p> <p>- ' ' %</p> <p>& %</p> <p>' ' %</p> <p>%) ' %</p> <p>(' %</p> <p>) ' ' %</p>	
		<p># ,</p> <p>* ' &</p> <p>) ' %</p> <p>% * ' %</p> <p>] DG</p> <p>% + ' %</p> <p>) (' %</p> <p>)) ' %</p> <p>) * ' %</p>	

“
 “
 “
 “
 “
 “
 “

,

- %

FB5

% - %

% , %

, %

% %

+ %

% * %

		<p style="text-align: center;"># ,</p> <p>%\$ &</p> <p>%) %</p> <p>%t) %</p> <p>% \$ %</p> <p>%(%</p> <p>% * %</p> <p>&%& %</p>	
		<p style="text-align: center;"># ,</p> <p>' \$ %</p> <p>%\$ %</p> <p>%% %</p> <p>%& %</p> <p>' (%</p> <p>(& %</p> <p>% %</p> <p>%' %</p>	

		<p># ,</p> <p>% %</p> <p>% %</p> <p>% %</p> <p>(%</p> <p>% %</p> <p>% %</p> <p>% %</p> <p>% %</p>	
		<p># ,</p> <p>% %</p> <p>% %</p> <p>), %</p> <p>% %</p> <p>% %</p> <p>% %</p> <p>-% %</p> <p>% %</p>	

		<p># ,</p> <p>* &</p> <p>) - &</p> <p>%+ &</p> <p>% &</p>	
		<p># ,</p> <p>% %</p> <p>*% %</p> <p>- + %</p> <p>- , %</p> <p>% %</p> <p>% %</p> <p>*\$ %</p> <p>- * %</p>	

		<p># ,</p> <p>&%)</p> <p>&- %</p> <p>*) &</p>	

		fID6@ 七	
		(-`	
		%()	

		& 	
		* KYghYfb`V`chh] b[)-	
		% %*	

		f1D6@ ㄥ	
	9b[`] g\` DfYgYbhUh] cb	% &	%

	G8; g	I B8D	G8; G8; %+ G8; g
	G8; g	% I B8D	G8; g
		%\$` %+(` %+` %\$`	& & & &

		f15-7	
		=H	

		<p>'</p> <p>&\$(' %</p> <p>% %</p> <p>-% %</p> <p>&- ' %</p> <p>% & %</p> <p><AbYh</p> <p><] fcg\.] aU' AYZ] WU' BYhkcf _</p> <p>%& %</p> <p>B86 BUh] cbU' XUhU' VUgY</p> <p>*' %</p> <p>&& %</p>	

		<p># ,</p> <p>% %</p> <p>% ' ' %</p> <p>- ' ' %</p> <p>& %</p> <p>' ' %</p> <p>%) ' %</p> <p>(' %</p> <p>) ' ' %</p>	
		<p># ,</p> <p>* ' &</p> <p>) ' %</p> <p>% * ' %</p> <p>] DG</p> <p>% + ' %</p> <p>) (' %</p> <p>)) ' %</p> <p>) * ' %</p>	

“
“
“
“
“
“
“

,

- ' %

FB5

% - ' %

% , ' %

, ' %

% %

+ ' %

z à €f!3M'2 cA'ù ...ö...€Ž=°

% * ' %

,

% %

% %

% %

(%

% %

% %

% %

%

%

% %

%

%

%

%

% %

,

* &

) - &

*

)

#

) ü

) Å

)

d

)

		<p># ,</p> <p>&%)</p> <p>&- %</p> <p>*) &</p>	

		8B5		
		7	fl	

		<p>%) +</p> <p>%)</p> <p>%)</p>	
		<p>%)</p> <p>-\$</p>	]b j]j c'

		fl 七	
)&	
		-%	
		%(+	

		<p>%r%</p> <p>-&</p>	
		8B5	

		fl 七 % · ++ ·	
		&% · &\$ ·	
		&% · &\$ (·	

		$\frac{1}{2}x^2$ $2x$ $2x^2$	
		$2x^2$ $2x$	
		$2x^2$ $2x$	

	9b[`]g\` DfYgYbhUh] cb	% &	%

Hiroshima

8

169

2

169

8

8695174

169

2

À

	Japanese Experience of Social Development- Economy, Infrastructure, and Peace	<p>This course intends to discuss the issues of SDGs under the Guiding principles of Hiroshima University “Pursuit of Peace” and the long-term vision “Splendor Plan 2017”. The SDGs sets sustainability as a core of the global issues. Such a broad issue always involve many related issues. Resolution of one issue may produce another issue. It is important to consider cross-disciplinary approach and hisotorical aspect. Also inclusiveness is an important principle of SDGs, and thus all countries, developed and developing countries, should collaborate to tackle these.</p> <p>When considering these cross-disciplinary approach, history, and inclusiveness of development, Japanese experience of development provides an important case, because Japan, among non-European countries, is the first country which has become a member of OECD. Here, we can learn many points from the developing efforts whether they are success or failure. These efforts, including development assistance, are connected to Japanese society of today. On the other hand, Japan currently faces such new issues as rapid aging and depopulation. Thus this course discusses Japanese experience of social development from the above aspects.</p> <p>lesson1 Guidance of the course lesson2 JICA chugoku center lesson3 Yuichiro Yoshida “Japanese policy experience: Success and Failures” lesson4 Ichihashi Masaru “Industrial Policy and Economic growth” lesson5 Junyi Zhang “History of environmental policies in Japan”1 lesson6 Junyi Zhang “History of environmental policies in Japan”2 lesson7 Osamu Yoshida “Japanese ODA and its Asia Policy” lesson8 Mari Katayanagi “Reconstruction of Hiroshima from Peacebuilding Perspective”</p>	
		<p style="text-align: center;">Splendor Plan 2017 SDGs</p> <p style="text-align: center;">SDGs</p> <p style="text-align: right;">SDGs</p> <p style="text-align: center;">OECD</p>	

			8
		174	1
		312 JICA	1
		170	1
		175	1
		171	2
		172 ODA	1
		173	1

	Japanese Experience of Human Development-Culture, Education, and Health	<p>This course intends to discuss the issues of SDGs under the Guiding principles of Hiroshima University “Pursuit of Peace” and the long-term vision “Splendor Plan 2017”. The SDGs sets sustainability as a core of the global issues. Such a broad issue always involve many related issues. Resolution of one issue may produce another issue. It is important to consider cross-disciplinary approach and hisotorical aspect. Also inclusiveness is an important principle of SDGs, and thus all countries, developed and developing countries, should collaborate to tackle these.</p> <p>When considering these cross-disciplinary approach, history, and inclusiveness of development, Japanese experience of development provides an important case, becuase Japan, among non-European countries, is the first country which has become a member of OECD. Here, we can learn many points from the developing efforts whether they are success or failure. These efforts, including development assistance, are connected to Japanese society of today. On the other hand, Japan currently faces such new issues as rapid aging and depopulation. Thus this course discusses Japanese experience of human development from the above aspects.</p> <p>lesson1 Guidance of the course lesson2 Maharajan Keshav Lall “Japanese experience of development in Agriculture and Remote area” lesson3 Koki Seki “Socio-cultural Aspect of Modernization of Japan: Focusing on the Transformation of Norm, Mentality, and Way of Living” lesson4 Kinya Shimizu “A History of Education in Japan” lesson5 Kinya Shimizu “Lesson Study in Japan: As a tool of PDSI in Japanese Education” lesson6 Junko Tanaka “International cooperation and research collaboration in the field of public health” lesson7 Michiko Moriyama "Healthcare system in Japan: its characteristics and history" lesson8 Discussion</p> <p>(</p> <p style="text-align: center;">Splendor Plan 2017 SDGs SDGs</p> <p style="text-align: right;">SDGs</p> <p style="text-align: center;">OECD</p>	

			8
		178	/1
		177 MAHARJAN KESHAVLALL	1
		207	1
		176	2
		12	1
		22	1
		178	1

	SDGs	SDGs	
		SDGs	
		8 SDGs	
	178	1 SDGs	1 17 SDG
		17	
	180	1	2 12
	12	1	3 6
	22	,97 RAHMAN MD MOSHIUR	1
		3	
	181	1	
		4	
	179	1	5 10
			2 SDGs
	313	1	17 SDGs
	178	1	

	SDGs	SDGs	
		SDGs	
		8 SDGs	
	173	1	16 SDGs
	208	1	
		13	
	209	1	7 11
			(
	224	1	
		8	
	183	1	
		9	
	182	1	(14 15)
	314	1	17 11
			SDGs
	173	1	

		SDGs	
		8	
	184	210	2)
	226	5	
	185	226	1)
		ICT	
		8	
	211	4	
	186	4	AI
			R

		8	
	233	1	
	1	1	
	,		
	85	1	
	72	3	1
	234	1	
	HMnet		Hiroshima
	Medical Network		
	12	1	
	NDB National data base		
	14	1	
	16	1	

1.

2.

3.

4.

		<p># ,</p> <p>% %</p> <p>& * %</p> <p>%+ %</p> <p>& %</p> <p>' %</p> <p>) %</p> <p>(%</p> <p>, * %</p>	
		<p># ,</p> <p>* , %</p> <p>- #</p> <p>+ %</p> <p>%,] DG %</p> <p>\$\$ %</p> <p>, + %</p> <p>, , %</p> <p>, - %</p>	

		mRNA 3	
		# , %& &' , % &%&' % &&+ % &' + % &' - % &- (%	

		SPSS	JMP GraphPad Prism
		# , % % * % % % % % -%	

		<p style="text-align: center;">/ 8</p> <p>19 1</p> <p>20</p> <p>92</p> <p>240</p> <p>86</p> <p>241</p> <p>295</p> <p>18</p>	

		<p># ,</p> <p>%& &' %</p> <p>&((%</p> <p>&& %</p> <p>&() %</p> <p>& * %</p> <p>& + %</p> <p>&(, %</p> <p>&(- %</p>	
		<p># ,</p> <p>%& &</p> <p>% (%</p> <p>%& (%</p> <p>- (%</p> <p>% * %</p> <p>- ' %</p> <p>%&((%</p>	

		<p> & % - * % & % && % &% % -) % % (% </p>	
	Health Communication and Health Promotion	<p> This course is planned for master's course students to brief about health communication strategies and the importance of health promotion to achieve health equity. The overall objectives of the course for participants are to: 1. Describe many ways of health communication to improve population health outcomes and health care quality. 2. Outline health promotion strategies and understand the impact of health promotion to reform the primary health care services. 3. Identify the importance of health communication to reduce disease burden and health crisis management. 4. Discuss the concept of health education, communication, development and health equity. 5. Continue the practice of English communication. Specific course objectives: After successful completion of the course participants will be able to: 1. Define the principles of health communication to enhance the public health problems. 2. Develop the strategies of behavior change communication to raise knowledge and attitude towards the contagious diseases. 3. Explain the strategies and methods of health promotion for primary health care maintenance. 4. Recognize the social & behavioral determinants of health, school health programs and necessity of adolescent health promotion. 5. Formulate the communication strategies for safe motherhood, mental health and rehabilitation. </p>	

		<ol style="list-style-type: none"> 1. 2. 3. 4. . 1. 2. 3. 4. 5. 	
	Research Methodology in Health Science	<p>This course is intended for graduate course students. It is to inform the application or practice of research in health science to address the public health issues.</p> <p>The overall objectives of the course for students are to:</p> <ol style="list-style-type: none"> 1. Accurately describe the fundamental concepts and approaches in qualitative and quantitative research methodology 2. Identify how moral, ethical, cultural, social, political and environmental issues and responsibilities impact on research. 3. Critically review and critique the literature using valid resources, and thereby provide informed opinion. 4. Demonstrate skills in critical thinking by accurately synthesizing new research results in science/health. 5. Apply introductory descriptive and inferential statistical concepts and techniques in the analysis of data. <p>Specific course objectives:</p> <p>After successful completion of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. Define the principles of research in health science to enhance the public health problems. 2. Illustrate the association with the exposure and risk factors in health science. 3. Describe the different types of research methodology involved in health science. 4. Evaluate the implications of research methodologies on evidence based practice and their impact on clinical practice and policy. 5. Demonstrate skills consistent with lifelong learning. 	

		% & '	
		'\$ & '% & '& & '& & '& & '& & '& & '& &	
		% '& '	
		'(& ') & '* & '+ & '& & '& &	

Epidemiology and Disease
Prevention

This course is intended for master's course students. It is to inform the application or practice of epidemiology and prevention of diseases to address the public health issues.
The overall objectives of the course for students are to:

Statistics in Health
Science

'Statistics in Health Science' provides an opportunity to learn basic and advanced statistical methods commonly used in researches in health sciences. Methods referred in the lecture cover multivariate analyses including multiple regression analysis, logistic regression analysis and factor analysis, after confirming the knowledge on classical statistical methods such as chi-square test, t test and simple linear regression. This lecture is presented mainly in English for the convenience of oversea students.

	Global Health Challenges and Solutions	<p>This class is open to graduate students in Health Sciences, who intend to work on issues in local, country level, and/or worldwide. We will discuss WHO SDGs (Sustainable Development Goals) and solutions introduced from WHO; also we will discuss using our real strategic approaches implemented in Japan and other countries. Special guest speakers for lecture and discussion will be invited.</p> <p>At the first session, students will select their theme working through the semester, based on your own specialty and interest. Also, we discuss themes below from wide viewpoints.</p> <p>Specific course objectives: After successful completion of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. Explain the global health strategies and estimate the Japan public health services and future needs. 2. Describe the development of international health and priority programs of sustainable development goals (SDGs). 3. Detect the impact of globalization and compute the challenges of urban health care management. 4. Identify the emerging & reemerging health threats and suitable approaches to overcome the situations. 5. Acknowledge the achievement of public health development and develop communication skills to reduce global health related burden. <p style="text-align: center;">WHO SDGs</p> <p style="text-align: center;">SDGs</p> <p style="text-align: center;">/</p>	

<YU h\` F][\hg gYl i U`]hm

FYdfcXi W]j Y

%

' %

%&

&) %

&

&) \$`

%

,

		sexuality Reproductive Health Rights 8 15 9	
		research question QOL QOL	
		EBM QOL	

		Advanced Physical Assessment	
		End of Life Care QOL	

		<p>QOL</p> <p>EBCP(Evidence-based Clinical Practice)</p> <p>IT</p>	
		<p>QOL</p> <p>--</p>	
		/	
		QOL	
		/	
		QOL	

		Change Agent	
		Change Agent QOL	
		Change Agent	
		Change Agent QOL change agent	

		Change Agent	
		Change Agent	

		96A	

		PCR	ELISA
		1 2 3 4	/
		1) 2) 3)	

		QOL	
		QOL	

' +

%&'

124

37

		<p style="text-align: center;">%)</p> <p>% · &</p> <p>(, · &</p> <p>)\$ · &</p> <p>% · &</p> <p>)% & =H</p> <p>&+ · &</p> <p>&(% %</p> <p>&+, · %</p> <p>&+- · %</p>	
		<p>CAD/CAM</p> <p>Minimal Intervention</p>	
			<p>QOL</p>

5 & É % b				
>&)r œ ú ä&É Û S 7 \$ ^1"&i S ‡ – ú&É Û É ß ø Û Ò>'				
&É% (	5 &É% Fp j&a	1n*O'¼Fp Æ	*f	
Ge G{ G> Gw Gn S 6Û &É % • +M ú á ä &É Û 8• æ	#Ö / S4 Û"11=	F.3Æ °Fp%É'2F÷FÿH \$? , IPCR2H 7Á ¼ K .HELISAH 4G É) G nFØFúFùH JF»Fú •/jFÛ QG G G F1= eG"1 G#F÷ GFçFß#. 0ZFçFíG H +- (+-3 Fp%É'2G"4:)Fú0£#iFç /œFéG FúFÿH ›' Fp 9, % 2G"%±FóFòFúFßFäFøFú w#YF÷FòG F'G FíH GUGŠGMG" GFç Fß0Û oféG FúFÿH % 2Fp N#.H 6x dG % dFú6ðFéG %±1'FÛ z'g FóF1FáG G G"#.0ZFçFòH +- (Fp%É'2G"4 G FíG H e"©G"1 G VF÷ g *fFúF÷FÿG FäFøG"% †FøFéG F1		
	8j •+M\$14)G% µ+ Û"11=	F.8j •+M(ÖFp g ÁG µ+ Fp\$14)FúFòFÖFòH 8j;8! Q 4Fp g \$x \$14)FúFòFÖFòFÿ ' ¶Fp0£ 2G FíFp † = íFp N&äFúFòFÖFò0Z1 FéG F'G FíH ›\$14) •7uFúFúFáG ›' \$L HFp"i öFøFíFp £75FúFò FÖFòG 0• IFéG F1 •+M µ+ Fp\$14)FúFúFÖFòFÿ µ8x WG H •+M µ+ Fp\$14)FúFú ö&O\$xFú\$14)4#&iFúFúFáG š iG µ+ \$x Fú0ç • 2Fp#"gFúFòFÖFò1n*OG"/œFÖF1FáG FúH \$14) µ+ ÛFp q, %±1'G" "G FøFøG FúH •+M µ+ G •+M µ+ 0«)Ž µ ðFúFúFp q, µ ð FúFúFúFòFÖFò1n*OG"/œFÖF1		
	8j •+M\$14)G% µ+ Û †*f H	F.8j •+M(ÖFp µ+ H ›GwG2GcGGGTGŠGFFúFúFáG \$L H £75Fú6ðFéG +« É%É'2FúFúFúFúFò ²0[Fú 9,(ÖFp S(G)+0£ #.Fp m 2G"#. 0ZFéG F1"IFú Z @+bFú6ðFéG %É'2GTGŠGIFø6ð4 Fp YFò+« È\$x1= eFúFúFp '1 G"3úFèFòH +« È\$x%É'2FúFúFáG 9,(ÖFp S(G ² 0[Fú (Ö #.Fp m 2FúFòFÖFò\$1/² IG 0!1=G"/œFÖFäFøFúG FòFò 2¶\$x Fú ÛG F'G FíH 8j •+MFp#Ö#. \$x µ+ G ›GwG2GcGGGTGŠGFFú P ÁFçFíH \$L H £75 2G µ+ 7€ FúFúFú6ð4 FçFíG]GaGxGTGŠGEGuG• G GxG]GaGxGTGŠGEGuG•FúFúFáG G6GaGUG•GGG" è0!FéG FøFøG Fú › Û#Ö Fú ZFøFi+« È\$x%É'2Fp4 /œFú ²0[Fú)+0£ ÛxH 0ç • Ûx m 2Fú FòFòFò 2¶\$x Fú ÛG F1		
	Q&É/'#Ö ^ M*ñ Û †*f H	F.# ~Fp Q&É \$²G% \$² _ Á VG**f ÖFçFòH Q&É/'#Ö ^ M*ñ ..Fÿ q ›'fFp+« È+ ŠFÛ ²0[FøFáG G F1 • †*fF÷FÿH Q&É/'#Ö ^ +« ÉFúFúFáG 9x ØFÚFò q ›'fFp%±1'G% •/j*f "Fp M*ñFú/œFøG FäFø G"% \$x FøFçFòH q, Fp+« È&É% Fp M*ñ B YFø Q&É/'#Ö ^ Fp%É'2 Fp • ¥G"#.0ZFéG F'G FíH Û#Ö æ _G M*ñFú FÖG9G4G•GIGxG•G>Fú 6ðFéG S6Û\$x+ ŠG"3 Fú%TFáG F1FáG FúH •/j M*ñG" 2¶FéG Fí G Fp M 5 2G ó ²Fú 5 Fp ŽäG**fFø Q&É/'#Ö ^ M (Fp z m FúFòFòFò 2¶\$x Fú ÛG F1		
	•+M – ú Û%É'2 †*fH	F.# ~H G G ²FòFp Q&É Ûx%É'2FúFúFúFúFòH q) \$x FúFÿ)+0£ \$x m 2G"#YFòFòH) YFp w – öFp è0!Fú/œG G FòFòG F1FíFpFíG FúFÿH G FèH %É'2 (5 Fp ö&O%±1'G"*f "FçH q, Fp%É'2 • ¥G/#. 0ZFéG FäFøFú Y • F÷FòG F1 FúH 9,G"/œFòFòFúG H)+0£\$x è0! G"/œFò 6 Û*...G "FÖFÚH FòG ' Fp)+0£\$x Fú è0!G"/œFòFäFøG" S fFø FçFòH 9,0£#iG") G FäFøFú5 0[F÷FòG F1FíFpFíG FúFÿH 0£i 'G 6ð XG" Q#YFçH ö •\$x Fú)+0£ m 2FúFúFpG FòFú X ÛFp Vú BG 'gFòFòFòG FúG"#.0ZFäFèFíFòF1 q) \$x% †FÿH µ0 Fp)+0£GKGcGVG" +-#äFú Q#YFçH +-3 FpGUGŠGMG" (ÖféG FäFøFøFéG F1		
	#Ö / S4 G% µ+ Y Y Û † *fH	F. QG%8jFp †FÜG #ÖFèG µ+ Fp | S(G"/œFò µ+ Y YFp ›'f \$x Á#Y IG ,0d! qH B"> Q&É! qFp K%TH U –GUGFGMGyGUGŠ GMFúG G ,FçFò \$²FøFíFp •/jG" Á#YFçFí%É'2GTGŠGIFø6ð4 Fp Y F01= eFp '1 Fø0!1=G"3úFèFòH JF»Fú 9,(ÖFp m 2G 9,GUGŠ GMFp vG ...Fò %H 9,GUGŠGMFú P ÁFçFí)+0£0Ž ÖFp % 2FúFúG"*f "FçH #.0ŽG" YG G FäFøF÷ ›+-Fú ²0[Fú 9,GUGDG2G•Fp S(H GeGz GJG•GTGŠGEGuG•Fp+ ŠH Y ^1= eFp ó'1 % 2FúFúG" 2¶\$x Fú Û G F1		
\$²GEGGGTGn d Û †*fH	F. \$²GEGGGTGn d Û (5 Fp%É'2H GUGFGMGyGUG•GTG1GGGVGxG %))È \$L H0ç •H GVGwG•GGGzGŠGEGuGXGyGxGCGŠGOFúFùH G"/œFò VF÷ ²0[Fú) ' µ ðH GEGGGTGnH GKGCcGVG4G6G0H ! qFúFúFp vG ...Fò % 2H IG H 9, % 2H GEGmGsGzGŠGEGuG• % 2FúFúG"*f "FçH G FíH %É'2 (5 Fø6ð 4 FéG 1= eFp '1 G"3úFèFò+« É%É'2FúFúFáG 9,(ÖG%GEGGGTGnFp S(% 2G ²0[Fú)+0£ #.Fp m 2FúFòFÖFò*f "FçH \$1/² IG 0! 1=G"/œFÖFäFøFúG FòFò 2¶\$x Fú ÛG FäFøG"% †FøFéG F1			

		X MRI D D	
		19	
		102	

	Hiroshima		
		8	
	169	2	
	Hiroshima		
	206	2	
	167	1	
	168	1	
	205	2	

	Japanese Experience of Social Development- Economy, Infrastructure, and Peace	<p>This course intends to discuss the issues of SDGs under the Guiding principles of Hiroshima University “Pursuit of Peace” and the long-term vision “Splendor Plan 2017”. The SDGs sets sustainability as a core of the global issues. Such a broad issue always involve many related issues. Resolution of one issue may produce another issue. It is important to consider cross-disciplinary approach and hisotorical aspect. Also inclusiveness is an important principle of SDGs, and thus all countries, developed and developing countries, should collaborate to tackle these.</p> <p>When considering these cross-disciplinary approach, history, and inclusiveness of development, Japanese experience of development provides an important case, becuase Japan, among non-European countries, is the first country which has become a member of OECD. Here, we can learn many points from the developing efforts whether they are success or failure. These efforts, including development assistance, are connected to Japanese society of today. On the other hand, Japan currently faces such new issues as rapid aging and depopulation. Thus this course discusses Japanese experience of social development from the above aspects.</p> <p>lesson1 Guidance of the course lesson2 JICA chugoku center lesson3 Yuichiro Yoshida “Japanese policy experience: Success and Failures” lesson4 Katsufumi Fukuda “Industrial Policy and Economic growth” lesson5 Junyi Zhang “History of environmental policies in Japan”1 lesson6 Junyi Zhang “History of environmental policies in Japan”2 lesson7 Osamu Yoshida “Japanese ODA and its Asia Policy” lesson8 Mari Katayanagi “Reconstruction of Hiroshima from Peacebuilding Perspective”</p> <p style="text-align: center;">Splendor Plan 2017 SDGs</p> <p style="text-align: right;">SDGs</p> <p style="text-align: center;">OECD</p>	

			8
		174	1
		312 JICA	1
		170	1
		175	1
		171	2
		172 ODA	1
		173	1

	Japanese Experience of Human Development-Culture, Education, and Health	<p>This course intends to discuss the issues of SDGs under the Guiding principles of Hiroshima University “Pursuit of Peace” and the long-term vision “Splendor Plan 2017”. The SDGs sets sustainability as a core of the global issues. Such a broad issue always involve many related issues. Resolution of one issue may produce another issue. It is important to consider cross-disciplinary approach and hisotorical aspect. Also inclusiveness is an important principle of SDGs, and thus all countries, developed and developing countries, should collaborate to tackle these.</p> <p>When considering these cross-disciplinary approach, history, and inclusiveness of development, Japanese experience of development provides an important case, because Japan, among non-European countries, is the first country which has become a member of OECD. Here, we can learn many points from the developing efforts whether they are success or failure. These efforts, including development assistance, are connected to Japanese society of today. On the other hand, Japan currently faces such new issues as rapid aging and depopulation. Thus this course discusses Japanese experience of human development from the above aspects.</p> <p>lesson1 Guidance of the course lesson2 Maharajan Keshav Lall “Japanese experience of development in Agriculture and Remote area” lesson3 Koki Seki “Socio-cultural Aspect of Modernization of Japan: Focusing on the Transformation of Norm, Mentality, and Way of Living” lesson4 Kinya Shimizu “A History of Education in Japan” lesson5 Kinya Shimizu “Lesson Study in Japan: As a tool of PDSI in Japanese Education” lesson6 Junko Tanaka “International cooperation and research collaboration in the field of public health” lesson7 Michiko Moriyama "Healthcare system in Japan: its characteristics and history" lesson8 Discussion</p> <p>(</p> <p style="text-align: center;">Splendor Plan 2017 SDGs</p> <p style="text-align: center;">SDGs</p> <p style="text-align: right;">SDGs</p> <p style="text-align: center;">OECD</p>	

			8
		178	/1
		177 MAHARJAN KESHAVLALL	1
		207	1
		176	2
		12	1
		22	1
		178	1

	SDGs	SDGs	
		SDGs	
		8 SDGs	
	178	1 SDGs	1 17 SDG
		17	
	180	1	2 12
	12	1	3 6
	22	,97 RAHMAN MD MOSHIUR	1
		3	
	181	1	
		4	
	179	1	5 10
			2 SDGs
	313	1	17 SDGs
	178	1	

	SDGs	SDGs	
			SDGs
		8	SDGs
	173	1	16 SDGs
	208	1	13
	209	1	7 11
		(
	224	1	8
	183	1	9
	182	1	(14 15)
	314	1	17 11 SDGs

		SDGs	
		8	
	184	210	2)
	226	5	
	185	226	1)
		ICT	
		8	
	211	4	
	186	4	
			AI
			R

			8
233		1	
1		1	,
		,	
85		1	
72		3	1
315		1	
		HMnet	
		Hiroshima Medical Network	
12		1	
NDB		National data base	
14		1	
16		1	

		1. 2. 3.	
		1. 2. 3.	

		<p># ,</p> <p>% %</p> <p>& * %</p> <p>%+ %</p> <p>& %</p> <p>' %</p> <p>) %</p> <p>(%</p> <p>, * %</p>	
		<p># ,</p> <p>* , %</p> <p>- #</p> <p>+ %</p> <p>%,] DG %</p> <p>\$\$ %</p> <p>, + %</p> <p>, , %</p> <p>, - %</p>	

		mRNA 3	
		# , %& & , ' % &%& % &&+ % & + % & - % &- (%	

		SPSS	JMP GraphPad Prism
		# , % % * % % % % % -%	

		<p># ,</p> <p>%& &' %</p> <p>&((%</p> <p>&& %</p> <p>&() %</p> <p>& * %</p> <p>& + %</p> <p>&(, %</p> <p>&(- %</p>	
		<p># ,</p> <p>%& &</p> <p>% (%</p> <p>%& (%</p> <p>- (%</p> <p>%* %</p> <p>- ' %</p> <p>%&((%</p>	

		<p> %& & - * % &' % && % &% % -) % % (% </p>	
	Health Communication and Health Promotion	<p> This course is planned for master's course students to brief about health communication strategies and the importance of health promotion to achieve health equity. The overall objectives of the course for participants are to: 1. Describe many ways of health communication to improve population health outcomes and health care quality. 2. Outline health promotion strategies and understand the impact of health promotion to reform the primary health care services. 3. Identify the importance of health communication to reduce disease burden and health crisis management. 4. Discuss the concept of health education, communication, development and health equity. 5. Continue the practice of English communication. Specific course objectives: After successful completion of the course participants will be able to: 1. Define the principles of health communication to enhance the public health problems. 2. Develop the strategies of behavior change communication to raise knowledge and attitude towards the contagious diseases. 3. Explain the strategies and methods of health promotion for primary health care maintenance. 4. Recognize the social & behavioral determinants of health, school health programs and necessity of adolescent health promotion. 5. Formulate the communication strategies for safe motherhood, mental health and rehabilitation. </p>	

		<ol style="list-style-type: none"> 1. 2. 3. 4. . 1. 2. 3. 4. 5. 	
	Research Methodology in Health Science	<p>This course is intended for graduate course students. It is to inform the application or practice of research in health science to address the public health issues.</p> <p>The overall objectives of the course for students are to:</p> <ol style="list-style-type: none"> 1. Accurately describe the fundamental concepts and approaches in qualitative and quantitative research methodology 2. Identify how moral, ethical, cultural, social, political and environmental issues and responsibilities impact on research. 3. Critically review and critique the literature using valid resources, and thereby provide informed opinion. 4. Demonstrate skills in critical thinking by accurately synthesizing new research results in science/health. 5. Apply introductory descriptive and inferential statistical concepts and techniques in the analysis of data. <p>Specific course objectives:</p> <p>After successful completion of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. Define the principles of research in health science to enhance the public health problems. 2. Illustrate the association with the exposure and risk factors in health science. 3. Describe the different types of research methodology involved in health science. 4. Evaluate the implications of research methodologies on evidence based practice and their impact on clinical practice and policy. 5. Demonstrate skills consistent with lifelong learning. 	

		<p># %</p> <p>* & %</p> <p>8B5 * (%</p> <p>*) %</p> <p>* + %</p> <p>% % %</p> <p>& % %</p> <p>& & %</p> <p>& ' ' \$ ' %</p> <p>& (%</p> <p>&) %</p> <p>& * %</p> <p>& + %</p> <p>' \$\$ %</p> <p>' \$% %</p> <p>' \$& %</p>	

		8B5	
		W	
		8B5 FB5	
		;HD	

		(D\UfaUWt_] bYh] Vg	
		=	
		ž' ž' ž' ž' ž'	
9b[`] g\` 7caai b] Wlh] cb		To develop individual researcher's communication skills (discourse analysis) applicable to both research based discussions as well as daily academic interaction. As the course plays out we will develop both class tasks (aimed at group academic needs) and individual tasks (aimed at each researcher's needs).	

BAFL

<D@7
AGL

		88G	
		6Ug] WfYgYUfWw` GYa] bUf 7`]b] VU` fYgYUfWw` GYa] bUf	
		BAFL <D@7 AGL	

		K<C =78 ł	fl
		ž · ž · ž · ž · ž ·	ž · ž · ž ·
		BAŁŁ	<D@7 AGŁ
		/	
		%	8B5 8B5

		*(
		%(
		8B5 FB5	
		8B5	
		*)	
		%%&	
		%(

		+) %%(%* H\YfUdYi h] WXfi [` acb] hcf] b[
		ž ž fl 7 ž ž ž	

Hiroshima

	8
169	2
	Hiroshima
206	2
167	1

			8
		206	1
		312 JICA	1
		170	1
		175	1
		171	2
		172 ODA	1
		173	1

			8
		178	/1
		177 MAHARJAN KESHAVLALL	1
		207	1
		176	2
		12	1
		22	1
		178	1

	SDGs	SDGs	
		SDGs	
		8 SDGs	
	178	1 SDGs	1 17 SDG
		17	
	180	1	2 12
	12	1	3 6
	22	,97 RAHMAN MD MOSHIUR	1
		3	
	181	1	
		4	
	179	1	5 10
			2 SDGs
	313	1	17 SDGs
	178	1	

SDGs

SDGs

SDGs

8

SDGs

173

1

16 SDGs

208

1

13

209

1

7 11

(

224

1

8

183

1

8>Ÿ>8_Mkrz1Ÿ19FN••À% ŽPŁâp • 8 b ; â)FèÇ Ū W#Đ S ùF •+ ^) í 7Á

>&183

11 3

1

W

q

@

h

7

183 ,5 x + ž, ‚R' `x ĐÁ P% < G>'

1 183_>* M •

		SDGs	
		8	
	184	210	2)
	226	5	
	185	226	1)
		ICT	
		8	
	211	4	
	186	4	
			AI
			R

			8
		233	1
		1	1
		,	,
		85	1
		72	3 1
		234	1
		Hiroshima Medical Network	HMnet
		12	1
		NDB	National data base
		14	1
		16	1

		1. 2. 3.	
		1. 2. 3.	

		<p># ,</p> <p>% %</p> <p>& * %</p> <p>%+ %</p> <p>& %</p> <p>' %</p> <p>) %</p> <p>(%</p> <p>, * %</p>	
		<p># ,</p> <p>* , %</p> <p>- #</p> <p>+ %</p> <p>%,] DG %</p> <p>\$\$ %</p> <p>, + %</p> <p>, , %</p> <p>, - %</p>	

		mRNA 3	
		<p># ,</p> <p>% &</p> <p>& , %</p> <p>&/& %</p> <p>&&+ %</p> <p>& + %</p> <p>& - %</p> <p>&- (%</p>	

		SPSS	JMP GraphPad Prism
		# , % % * % % % % % %	

		<p># ,</p> <p>% · %</p> <p>&\$ ·</p> <p>-& ·</p> <p>&(\$ ·</p> <p>, * ·</p> <p>&(%</p> <p>&-) ·</p> <p>% ·</p>	

		<p># ,</p> <p>%& &(' %</p> <p>&((%</p> <p>&(& %</p> <p>&() %</p> <p>&(* %</p> <p>&(+ %</p> <p>&(, %</p> <p>&(- %</p>	
		<p># ,</p> <p>%& &</p> <p>% %</p> <p>%& %</p> <p>-(%</p> <p>%* %</p> <p>- ' %</p> <p>%&(%</p>	

		<p>%, &</p> <p>- * %</p> <p>& %</p> <p>&& %</p> <p>&% %</p> <p>-) %</p> <p>% (%</p>	
	<p>Health Communication and Health Promotion</p>	<p>This course is planned for master’s course students to brief about health communication strategies and the importance of health promotion to achieve health equity.</p> <p>The overall objectives of the course for participants are to:</p> <ol style="list-style-type: none"> 1. Describe many ways of health communication to improve population health outcomes and health care quality. 2. Outline health promotion strategies and understand the impact of health promotion to reform the primary health care services. 3. Identify the importance of health communication to reduce disease burden and health crisis management. 4. Discuss the concept of health education, communication, development and health equity. 5. Continue the practice of English communication. <p>Specific course objectives:</p> <p>After successful completion of the course participants will be able to:</p> <ol style="list-style-type: none"> 1. Define the principles of health communication to enhance the public health problems. 2. Develop the strategies of behavior change communication to raise knowledge and attitude towards the contagious diseases. 3. Explain the strategies and methods of health promotion for primary health care maintenance. 4. Recognize the social & behavioral determinants of health, school health programs and necessity of adolescent health promotion. 5. Formulate the communication strategies for safe motherhood, mental health and rehabilitation. 	

		<ol style="list-style-type: none"> 1. 2. 3. 4. . 1. 2. 3. 4. 5. 	
	Research Methodology in Health Science	<p>This course is intended for graduate course students. It is to inform the application or practice of research in health science to address the public health issues.</p> <p>The overall objectives of the course for students are to:</p> <ol style="list-style-type: none"> 1. Accurately describe the fundamental concepts and approaches in qualitative and quantitative research methodology 2. Identify how moral, ethical, cultural, social, political and environmental issues and responsibilities impact on research. 3. Critically review and critique the literature using valid resources, and thereby provide informed opinion. 4. Demonstrate skills in critical thinking by accurately synthesizing new research results in science/health. 5. Apply introductory descriptive and inferential statistical concepts and techniques in the analysis of data. <p>Specific course objectives:</p> <p>After successful completion of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. Define the principles of research in health science to enhance the public health problems. 2. Illustrate the association with the exposure and risk factors in health science. 3. Describe the different types of research methodology involved in health science. 4. Evaluate the implications of research methodologies on evidence based practice and their impact on clinical practice and policy. 5. Demonstrate skills consistent with lifelong learning. 	

		<p style="text-align: right;">96A</p> <p>91 W</p> <p># %</p> <p>%&</p> <p>%(') %(' & %&</p> <p>&*)`9F=7`>`; F5BH %</p> <p>&- , %</p>	

		<p>96A</p> <p>& %</p> <p>& %</p> <p>(' &</p> <p>' % &</p> <p>& - &</p> <p>% , &</p> <p>% - &</p> <p>% - %</p> <p>%\$ \$ %</p> <p>% \$ %</p> <p>%&+ 96A %</p> <p>((%</p>	

		EC@	
		<p>'</p> <p>%&` %</p> <p>&(&` %</p> <p>&* - ` %</p> <p>&+\$` %</p> <p>' %+` %</p> <p>&+% %</p> <p>&)` %</p> <p>%` % %</p>	
		<p>>i gh] W#</p> <p>Di V] W <YU h\#</p> <p>'</p> <p>%&` %</p> <p>&+` %</p> <p>&+&` %</p> <p>&+` ` %</p> <p>&+(` %</p> <p>&+)` %</p> <p>% - ` %</p> <p>%` % %</p>	

		%&	
		%&('	
		%&	
		%&'	

		fl 七 % %% & (* & %' & (+ % (- % &\$ % %\$% % %&' % %&- % % \$ % % (% %) %	
		%)& %)' %* &\$ &	

	%
* ·	&
)) ·	&
% ·	&
+ ·	&
) * ·	%
%\$ ·	%
%\$ ·	%
% (·	%
%\$ (·	%
% * ·	%
% + ·	%

	Hiroshima		
		8	
	169	2	
	Hiroshima		
	206	2	
	167	1	
	168	1	
	205	2	

	Japanese Experience of Social Development-Economy, Infrastructure, and Peace	<p>This course intends to discuss the issues of SDGs under the Guiding principles of Hiroshima University “Pursuit of Peace” and the long-term vision “Splendor Plan 2017”. The SDGs sets sustainability as a core of the global issues. Such a broad issue always involve many related issues. Resolution of one issue may produce another issue. It is important to consider cross-disciplinary approach and hisotorical aspect. Also inclusiveness is an important principle of SDGs, and thus all countries, developed and developing countries, should collaborate to tackle these.</p> <p>When considering these cross-disciplinary approach, history, and inclusiveness of development, Japanese experience of development provides an important case, because Japan, among non-European countries, is the first country which has become a member of OECD. Here, we can learn many points from the developing efforts whether they are success or failure. These efforts, including development assistance, are connected to Japanese society of today. On the other hand, Japan currently faces such new issues as rapid aging and depopulation. Thus this course discusses Japanese experience of social development from the above aspects.</p> <p>lesson1 Guidance of the course lesson2 JICA chugoku center lesson3 Yuichiro Yoshida “Japanese policy experience: Success and Failures” lesson4 Katsufumi Fukuda “Industrial Policy and Economic growth” lesson5 Junyi Zhang “History of environmental policies in Japan”1 lesson6 Junyi Zhang “History of environmental policies in Japan”2 lesson7 Osamu Yoshida “Japanese ODA and its Asia Policy” lesson8 Mari Katayanagi “Reconstruction of Hiroshima from Peacebuilding Perspective”</p> <p style="text-align: center;">Splendor Plan 2017 SDGs</p> <p style="text-align: center;">SDGs</p> <p style="text-align: center;">OECD</p>	

			8
		206	1
		312 JICA	1
		170	1
		175	1
		171	2
		172 ODA	1
		173	1

			8
		178	/1
		177 MAHARJAN KESHAVLALL	1
		207	1
		176	2
		12	1
		22	1
		178	1

	SDGs	SDGs	
		SDGs	
		8 SDGs	
	178	1 SDGs	1 17 SDG
		17	
	180	1	2 12
	12	1	3 6
	22	,97 RAHMAN MD MOSHIUR	1
		3	
	181	1	
		4	
	179	1	5 10
			2 SDGs
	313	1	17 SDGs
	178	1	

	SDGs	SDGs	
			SDGs
		8	SDGs
173	1		16 SDGs
208	1	13	
209	1		7 11
	(
224	1	8	
183	1	9	
182	1	(14 15)	
314	1		17 11 SDGs

		SDGs	
		8	
	184	210	2)
	226	5	
	185	226	1)
		ICT	
		8	
	211	4	
			AI
	186	4	
			R

		1. 2. 3.	
		1. 2. 3.	

		mRNA 3	
		<p># ,</p> <p>%& &</p> <p>&' , %</p> <p>&%&' %</p> <p>&&+' %</p> <p>&' + %</p> <p>&' - %</p> <p>&- (%</p>	

5 & É % b				
>&)r œ ú ã&É Û S 7 \$ ^1"&i S ‡ Û"@#. ^ É ß ç Û Ò>'				
&É% (	5 &É% b j&à	1n*O'¼ b Æ	*f
%É '2 &É 1 3Û &É %	**É' 4 H	H +0[H #' æFp \$ªF-FÿH › (5 Fp S6ÛGGMGQGcFÜ4 G%>Fp Ó ½ Á « %' FöH \$ªFü \FìG GOGŠGn \$ªFÜ ÉFÜFöFöFÜG H 9x ØFüGOGŠGn \$ª G" _FÖFäFöFÜF-FYg 9x Ø S6Û \$ª ÇFp8ö BFpFìG H **É' FöFp6ö €G" Ý ìFäFöFöFÖFßF' ÛH Q ÛH . Û'¼Fp \$ª •/jH \$ª 2'¼ G"1n*OFéG F' H G8GnGYG^GG %' >Û ²>ä GH H >ã>à>ì ç9?F. •H >Ý GH G:G2GNG•GG IG **É' 4 Fp ²0[öFüFöFöFöH 1n*OG"FéG F' H >ß>ß>ì j £F. ©,QH >Ý GH \$ªG?G0Fü6öFéG %31² œFp z m (, FüFöFöFöH 1n*OG"FéG F' H >ß>á>ì R •F. œH >Ý GH ô ö ‡GxG]GaGxGTGSgEGuG•GOGŠGnFüFöFöFöH 1n*OG"FéG F' H >ß>ã>ì † jF. WH >Ý GH œG%0%31² œG%GxG]GaGx6ö4 *É' FöFp4 FüFöFöFöH 1n*OG"FéG F' H >ã>ã>ì œ \$F. ^ rH >Ý GH œFÜG G Fì **É' 4 Fp ²0[öFüFöFöFöH 1n*OG"FéG F' H >ã>á>ì •F.%\$ "H >Ý GH GOGŠGn \$ªFüFÜFáG Q&É œFÜ/œFÖ4 FüFöFöFöH 1n*OG"FéG F' H >ã>á>ì Ç •F./ñ rH >Ý GH ", 4 FüFÜFáG . c œFp z mG%01"8ÿG%0 v) FüFöFöFöH 1n*OG" FéG F' H >á>à>ì Æ.(F.%?#. ÊH >Ý GH Ø/j ‡FüFÜFáG Q&É/#Ø ^Fp z mFüFöFöFöH 1n*OG"FéG F'	Fp Ó ½ Á « %' FöH \$ª FÜ ÉFÜFöFöFÜG H 9x ØFüGOGŠGn \$ª G" _FÖFäFöFÜF-FYg 9x Ø S6Û \$ª ÇFp8ö BFpFìG H **É' FöFp6ö €G" Ý ìFäFöFöFÖFßF' ÛH Q ÛH . Û'¼Fp \$ª •/jH \$ª 2'¼ G"1n*OFéG F' H G8GnGYG^GG %' >Û ²>ä GH H >ã>à>ì ç9?F. •H >Ý GH G:G2GNG•GG IG **É' 4 Fp ²0[öFüFöFöFöH 1n*OG"FéG F' H >ß>ß>ì j £F. ©,QH >Ý GH \$ªG?G0Fü6öFéG %31² œFp z m (, FüFöFöFöH 1n*OG"FéG F' H >ß>á>ì R •F. œH >Ý GH ô ö ‡GxG]GaGxGTGSgEGuG•GOGŠGnFüFöFöFöH 1n*OG"FéG F' H >ß>ã>ì † jF. WH >Ý GH œG%0%31² œG%GxG]GaGx6ö4 *É' FöFp4 FüFöFöFöH 1n*OG"FéG F' H >ã>ã>ì œ \$F. ^ rH >Ý GH œFÜG G Fì **É' 4 Fp ²0[öFüFöFöFöH 1n*OG"FéG F' H >ã>á>ì •F.%\$ "H >Ý GH GOGŠGn \$ªFüFÜFáG Q&É œFÜ/œFÖ4 FüFöFöFöH 1n*OG"FéG F' H >ã>á>ì Ç •F./ñ rH >Ý GH ", 4 FüFÜFáG . c œFp z mG%01"8ÿG%0 v) FüFöFöFöH 1n*OG" FéG F' H >á>à>ì Æ.(F.%?#. ÊH >Ý GH Ø/j ‡FüFÜFáG Q&É/#Ø ^Fp z mFüFöFöFöH 1n*OG"FéG F'	
	Û)+0£G_GQG?GŠGF	*f F+« É%É'2G%\$? Û%É'2F÷8-#YFáG FöFÖG)+0£0Ž O m 2FüFöFöFö1n *O IG)+0£0Ž ÖGKGcGVFüG G *fG"/œFÖH ÛGUGŠGM0Ž ÖFp ö&O ŠG%0 2¶ ŠG"3 FüFöFáG FäFøG"% \$x FøFéG F')+0£0Ž GcGVFÿ SPSSüFüH G FìG>GwGcGKGcGVFÿGÜGp176cErisüH " £ FçFöFÖG F'		
S 7 1 3Û &É %	#Ö è \$ª&É Û1=	>& +0[>' Û(Ö _X 8 Z M+á\$×)r1= l g _ &É Û(Ö>* d Û (Ö _6ö4 K S Û b ›1=\$x1n*O †/œ 8>* _ í d Û(Ö b Û ^1"&i Û#Ö _ Û b ö&O\$× í S6U\$×%±1' † f j M • >& œ Ò ½ Á « %' ² G>' >& ± • &½ ž>* á V ^ ->->/ G>'>& ¹ >' Ç / S4 Û>&0Ž W Û í\$ì#Ö Û>' _ X 8 Z>*1n*O M • >& • (G#Ö>->/ G>' (ý+ µ+ Û>&#Ö#. Û>' _ X 8 Z>*1n*O M • >& #ã p (ç Ê>->/ G>' &k Û \ \$ª Ö#. í%É'2 Ö#. _ X 8 Z>*1n*O M • >& ó - :>->/ G>' \$S l í\$S Á Û>&\$S#. Û>' _ X 8 Z>*1n*O M • >& x5 %± M4{>->/ G>' (ý+ µ+ Û>&#Ö ì Û í (Ê#Ö"@ Û>' _ X 8 Z>*1n*O M • >& y4Š \$ì>- G>' +« Ê Û +1=>& (Ê Æ&É Û>' l g+« Ê Û ›1=>& ç ¼ p (Ö>' _ X 8 Z>*1n*O M • >& l#ã 7ù>->/ G>' +« Ê Û ›1=>& : U)z0Ç • í \$ª Û>' _ X 8 Z>*1n*O M • >& - Á j>->/ G>' +« Ê Û ›1=>& Z g ¥&É>' _ X 8 Z>*1n*O M •	G8GnGYG^GG %' G%0¹ H M4ŠH	

+

		<p># ,</p> <p>% · %</p> <p>&\$ ·</p> <p>-& ·</p> <p>&(\$ ·</p> <p>, * ·</p> <p>&(%</p> <p>&-) ·</p> <p>% ·</p>	

		<p># ,</p> <p>%& &' %</p> <p>&((%</p> <p>&& %</p> <p>&() %</p> <p>& * %</p> <p>& + %</p> <p>&(, %</p> <p>&(- %</p>	
		<p># ,</p> <p>%& &</p> <p>% (%</p> <p>%& (%</p> <p>- (%</p> <p>% * %</p> <p>- ' %</p> <p>%&((%</p>	

		<p> & % - * % & % && % &% % -) % % (% </p>	
Health Communication and Health Promotion		<p> This course is planned for master's course students to brief about health communication strategies and the importance of health promotion to achieve health equity. The overall objectives of the course for participants are to: 1. Describe many ways of health communication to improve population health outcomes and health care quality. 2. Outline health promotion strategies and understand the impact of health promotion to reform the primary health care services. 3. Identify the importance of health communication to reduce disease burden and health crisis management. 4. Discuss the concept of health education, communication, development and health equity. 5. Continue the practice of English communication. Specific course objectives: After successful completion of the course participants will be able to: 1. Define the principles of health communication to enhance the public health problems. 2. Develop the strategies of behavior change communication to raise knowledge and attitude towards the contagious diseases. 3. Explain the strategies and methods of health promotion for primary health care maintenance. 4. Recognize the social & behavioral determinants of health, school health programs and necessity of adolescent health promotion. 5. Formulate the communication strategies for safe motherhood, mental health and rehabilitation. </p>	

		<ol style="list-style-type: none"> 1. 2. 3. 4. . 1. 2. 3. 4. 5. 	
	Research Methodology in Health Science	<p>This course is intended for graduate course students. It is to inform the application or practice of research in health science to address the public health issues.</p> <p>The overall objectives of the course for students are to:</p> <ol style="list-style-type: none"> 1. Accurately describe the fundamental concepts and approaches in qualitative and quantitative research methodology 2. Identify how moral, ethical, cultural, social, political and environmental issues and responsibilities impact on research. 3. Critically review and critique the literature using valid resources, and thereby provide informed opinion. 4. Demonstrate skills in critical thinking by accurately synthesizing new research results in science/health. 5. Apply introductory descriptive and inferential statistical concepts and techniques in the analysis of data. <p>Specific course objectives:</p> <p>After successful completion of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. Define the principles of research in health science to enhance the public health problems. 2. Illustrate the association with the exposure and risk factors in health science. 3. Describe the different types of research methodology involved in health science. 4. Evaluate the implications of research methodologies on evidence based practice and their impact on clinical practice and policy. 5. Demonstrate skills consistent with lifelong learning. 	

		fl ㄥ	
		: U] n' A' ?\Ub H\Y' D\ng] Vg' cZ FUX] Uh] cb' H\YfUdm ' : ci fh\ ' 9X] h] cb cZ' D\ng] V]ghg'] b' AYX] V]bY 55DA 5aYf] Wlb' 5ggcW]UhY H	

		<p style="text-align: center;">%</p> <p>% ·</p> <p>)&</p> <p>% ·</p> <p>) · · &</p> <p>%* · &</p> <p>& \$ · &</p>	
		<p style="text-align: center;">%</p> <p>* · &</p> <p>)) · &</p> <p>% · &</p> <p>+ · &</p> <p>) * · %</p> <p>%\$ · %</p> <p>%\$ · %</p> <p>%(· %</p> <p>%\$(· %</p> <p>% * · %</p> <p>%+ · %</p>	

		<p>(\$</p> <p>*%</p> <p>& \$ &</p>	
		<p style="text-align: right;">> i gh] W#</p> <p style="text-align: center;">Di V] W < YU h\#</p> <p> %& % &+ % &+& % &+ ' % &+(% &+) % % - % % % % </p>	
		<p>fl 七</p> <p style="text-align: right;">%</p> <p>%& &</p> <p>(* &</p> <p>%* &</p> <p>(+ %</p>	

		(- ' % &\$ ' % %\$% % %& ' % %&- ' % % \$ ' % % (' % %) ' %	
		8B5 % * ' & * * ' & * , ' % %\$, ' % , + ' % %\$- ' % % - ' % %(\$ ' % %(% % % %*% % %* & ' % %* ' % 8B5 & , ' %	

	Hiroshima		
		8	
	169	2	
	Hiroshima		
	206	2	
	167	1	
	168	1	
	205	2	

			8
		206	1
		312 JICA	1
		170	1
		175	1
		171	2
		172 ODA	1
		173	1

Japanese Experience of Human Development- Culture, Education, and Health

This course intends to discuss the issues of SDGs under the Guiding principles of Hiroshima University "Pursuit of Peace" and the long-term vision "Splendor Plan 2017". The SDGs sets sustainability as a core of the global issues. Such a broad issue always involve many related issues. Resolution of one issue may produce another issue. It is important to consider cross-disciplinary approach and hisotorical aspect. Also inclusiveness is an important principle of SDGs, and thus all countries, developed and developing countries, should collaborate to tackle these.

When considering these cross-disciplinary approach, history, and inclusiveness of development, Japanese experience of development provides an important case, because Japan, among non-European countries, is the first country which has become a member of OECD. Here, we can learn many points from the developing efforts whether they are success or failure. These efforts, including development assistance, are connected to Japanese society of today. On the other hand, Japan currently faces such new issues as rapid aging and depopulation. Thus this course discusses Japanese experience of human development from the above aspects.

lesson1 Guidance of the course
 lesson2 Maharajan Keshav Lall "Japanese experience of development in Agriculture and Remote area"
 lesson3 Koki Seki "Socio-cultural Aspect of Modernization of Japan: Focusing on the Transformation of Norm, Mentality, and Way of Living"
 lesson4 Kinya Shimizu "A History of Education in Japan"
 lesson5 Kinya Shimizu "Lesson Study in Japan: As a tool of PDSI in Japanese Education"
 lesson6 Junko Tanaka "International cooperation and research collaboration in the field of public health"
 lesson7 Michiko Moriyama "Healthcare system in Japan: its characteristics and history"
 lesson8 Discussion

(

Splendor Plan 2017
SDGs

SDGs

			8
		178	/1
		177 MAHARJAN KESHAVLALL	1
		207	1
		176	2
		12	1
		22	1
		178	1

	SDGs	SDGs	
		SDGs	
		8 SDGs	
	178	1 SDGs	1 17 SDG
		17	
	180	1	2 12
	12	1	3 6
	22	,97 RAHMAN MD MOSHIUR	1
		3	
	181	1	
		4	
	179	1	5 10
			2 SDGs
	313	1	17 SDGs
	178	1	

	SDGs	SDGs	
		SDGs	
		8 SDGs	
	173	1	16 SDGs
	208	1	
		13	
	209	1	7 11
			(
	224	1	
		8	
	183	1	
		9	
	182	1	(14 15)
	314	1	17 11
			SDGs
	173	1	

		SDGs	
		8	
	184	210	2)
	226	5	
	185	226	1)
		ICT	
		8	
	211	4	
	186	4	AI
			R

		1. 2. 3.	
		1. 2. 3.	

		<p># ,</p> <p>% %</p> <p>& * %</p> <p>%+ %</p> <p>& %</p> <p>' %</p> <p>) %</p> <p>(%</p> <p>, * %</p>	
		<p># ,</p> <p>* , %</p> <p>- #</p> <p>+ %</p> <p>%,] DG %</p> <p>\$\$ %</p> <p>, + %</p> <p>, , %</p> <p>, - %</p>	

		mRNA 3	
		# , %& &' , % &%&' % &&+ % &' + % &' - % &- (%	

		SPSS	JMP GraphPad Prism
		# , % % * % % % % % -%	

		<p># ,</p> <p>% · %</p> <p>&\$ ·</p> <p>-& ·</p> <p>&(\$ ·</p> <p>, * ·</p> <p>&(%</p> <p>&-) ·</p> <p>% ·</p>	

		<p># ,</p> <p>%& &' %</p> <p>&((%</p> <p>&& %</p> <p>&() %</p> <p>& * %</p> <p>& + %</p> <p>&(, %</p> <p>&(- %</p>	
		<p># ,</p> <p>%& &</p> <p>% (%</p> <p>%& (%</p> <p>- (%</p> <p>%* %</p> <p>- ' %</p> <p>%&((%</p>	

%& &
 - * %
 & %
 && %
 &% %
 -) %
 % (%

Health Communication and Health Promotion

This course is planned for master's course students to brief about health communication strategies and the importance of health promotion to achieve health equity.

The overall objectives of the course for participants are to:

1. Describe many ways of health communication to improve population health outcomes and health care quality.

2. Outline health promotion strategies and understand the impact of health promotion on health equity.

		<ol style="list-style-type: none"> 1. 2. 3. 4. . 1. 2. 3. 4. 5. 	
	Research Methodology in Health Science	<p>This course is intended for graduate course students. It is to inform the application or practice of research in health science to address the public health issues.</p> <p>The overall objectives of the course for students are to:</p> <ol style="list-style-type: none"> 1. Accurately describe the fundamental concepts and approaches in qualitative and quantitative research methodology 2. Identify how moral, ethical, cultural, social, political and environmental issues and responsibilities impact on research. 3. Critically review and critique the literature using valid resources, and thereby provide informed opinion. 4. Demonstrate skills in critical thinking by accurately synthesizing new research results in science/health. 5. Apply introductory descriptive and inferential statistical concepts and techniques in the analysis of data. <p>Specific course objectives:</p> <p>After successful completion of the course, students will be able to:</p> <ol style="list-style-type: none"> 1. Define the principles of research in health science to enhance the public health problems. 2. Illustrate the association with the exposure and risk factors in health science. 3. Describe the different types of research methodology involved in health science. 4. Evaluate the implications of research methodologies on evidence based practice and their impact on clinical practice and policy. 5. Demonstrate skills consistent with lifelong learning. 	

) , * , (&	
		%)& * +) % (\$ %)+)- %& (& - , \$, % %, , &)* *% *\$) ,	

		% * *)), *, ,(&	
		%)& %)* %* &\$	% ' ' & & &

		<p>%) + ' ' % %(' % ' ' % %), ' % %\$) ' % %\$* ' & % + ' 5A5HM5' J=G<K5' >99H () %, ' % %θ, ' %</p>	
		<p>) - ' & *\$ ' & %\$+ ' & %$\theta$ - ' % %*\$ ' %</p>	

		<p>(\$</p> <p>*%</p> <p>& \$ &</p>	
		<p>> i gh] W#</p> <p>Di V] W < YU h\#</p> <p>%& %</p> <p>&+ %</p> <p>&+& %</p> <p>&+ ' %</p> <p>&+(%</p> <p>&+) %</p> <p>% - %</p> <p>% % %</p>	

		fl 七	
		<p style="text-align: center;">%</p> <p>%% &</p> <p>(* &</p> <p>% &</p> <p>(+ %</p> <p>(- %</p> <p>&\$ %</p> <p>%% %</p> <p>%& %</p> <p>%&- %</p> <p>% \$ %</p> <p>% (%</p> <p>%) %</p>	
		<p>%% &</p> <p>((&</p> <p>% ' &</p> <p>%& %</p> <p>&&- %</p>	

			8B5
			<p style="text-align: center;">%</p> <p>*' · &</p> <p>**' &</p> <p>* , · %</p> <p>%\$, · %</p> <p>, + · %</p> <p>%\$ - · %</p> <p>% - · %</p> <p>%(\$ · %</p> <p>%(% % %</p> <p>%& · %</p> <p>%' · %</p> <p>8B5 & , · %</p>

		<p style="text-align: center;">%)</p> <p>%) · &</p> <p>%(· &</p> <p>&%) · &</p> <p>% - · &</p> <p>%) · %(· &%) · +</p> <p style="text-align: center;">#</p>	<p style="text-align: center;">%)</p> <p style="text-align: center;">%)</p>
		<p style="text-align: center;">%)</p> <p>&%) · ,</p> <p>%) * · +</p>	

		<p style="text-align: center;">%</p> <p>% + +</p> <p>&% +</p> <p>% + &% % fl</p>	
		<p style="text-align: center;">8B5</p> <p style="text-align: center;">%</p> <p>%, & 8B5</p> <p>' %%</p> <p>%, & & &</p>	
	=		
			&\$% (

		$\frac{\text{A}}{\text{B}} \times 100\%$	
		$\frac{\text{C}}{\text{D}} + \text{E}$	
	=	$\frac{\text{F}}{\text{G}} \times 100\%$	
		$\frac{\text{H}}{\text{I}} \times 100\%$	
		$\frac{\text{J}}{\text{K}} \times 100\%$	
		$\frac{\text{L}}{\text{M}} \times 100\%$	

		= fl	
			%
		&\$('	(
		&&&'	(
		&&'	,
		&&'	(

	G8; g	IB8D	G8; G8; %+ G8; g
	G8; g		% G8; g IB8D
)& -- -,)'	& & & &

		<p>'</p> <p>%& ' %</p> <p>), ' %</p> <p>%%\$ ' %</p> <p>* & ' * \$ ' %</p> <p>%&- ' %</p> <p><AbYh</p> <p><] fcg\] aU' AYZ] WU' ' BYhkc f _</p> <p>) + ' %</p> <p>B86 BUh] cbU' ' XUhU' VUgY</p> <p>%%\$ ' %</p> <p>* ' ' %</p>	

		<p># ,</p> <p>) , %</p> <p>% \$ %</p> <p>% (%</p> <p>) - %</p> <p>* \$ %</p> <p>% %</p> <p>* % %</p> <p>% \$ %</p>	
		<p># ,</p> <p>& * - %</p> <p>· ·</p> <p>* + %</p> <p>* , %</p> <p>] DG</p> <p>(%</p> <p>% \$ %</p> <p>% \$ (%</p> <p>% \$) %</p>	

		" " " " " " "	
		# , +& % FB5 * %) % +% %) , % +\$ % * , % + ' %00 ' 5A5HND ' J=G<K5 ' >99H %	

		<p># ,</p> <p>+ ' ' &</p> <p>% & %</p> <p>%\$+ %</p> <p>%&% %</p> <p>% % %</p> <p>% ' ' %</p> <p>% (' ' %</p>	
		<p># ,</p> <p>* (' %</p> <p>- ' %</p> <p>% ' %</p> <p>%& ' %</p> <p>*) ' %</p> <p>** ' %</p> <p>+ * ' %</p> <p>' % %</p>	

		<p># ,</p> <p>+(' %</p> <p>+) ' %</p> <p>* \$ ' %</p> <p>* % ' %</p> <p>+ * ' %</p> <p>% & ' %</p> <p>% & & ' ++ ' %</p> <p>) + ' %</p>	
		<p># ,</p> <p>% %</p> <p>+ , ' %</p> <p>% \$, ' %</p> <p>+ - ' %</p> <p>, \$ ' %</p> <p>% % * ' %</p> <p>% % + ' %</p> <p>+ (' %</p>	

		<p># ,</p> <p>*_ · &</p> <p>%\$- · &</p> <p>%&(· &</p> <p>%&) · &</p>	
		<p># ,</p> <p>+ (· %</p> <p>%%& %</p> <p>%& · %</p> <p>%&\$ · %</p> <p>, % %</p> <p>%&* · %</p> <p>%%\$ · %</p> <p>%& · %</p>	

<p>9bj] f cbaYbh' UbX <YU h\</p>		<p>H.]g' Vti fgY']g' XYg] [bYX' Zcf' [fUXi UhY' ghi XYbhg hc' g\UFY' h\Y' bYVggUfm h\YcfYh] WU' _bck' YX[Y' UbX Uhh] hi XY' hc' XYj Y' cd' h\Y' dUf hbYfg\ d' Zcf' \YU h\ df chYVh] cb' Zf ca' W] aUhY' f] g_g" ' H\Y' aU] b' hcd] Vg' UfY gY' YVhYX'] b' h\]g' Vti fgY' hc' g\UFY' h\Y' hf UX] h] cbU gVWbUf] c' fY' UhYX' hc' W] aUhY' V\Ub[Y' UbX' \YU h\ YZZYVhg" H\Y' cj YfU' ' cV^YVh] j Yg' cZ' h\Y' Vti fgY' Zcf' ghi XYbhg' UfY hc. % ' 8YgVW] VY' h\Y' \UhUfXg' UbX' \YU h\ YZZYVhg' Xi Y' hc W] aUhY' V\Ub[] b[' UbX' ci h'] bY' h\Y' bYVggUfm dfYj Ybh] j Y aYUgi fYg" &" : cf ai' UhY' h\Y' dfYj Ybh] j Y' UbX' V\ubfc' ' aYh\cXg' cZ V\aacb' j] fU' UbX' ch\Yf'] bZYVh] ci g' X] gYUgYg" ' " ' 9l d' U] b' h\Y'] adcf hUbVW' cZ' XYac[f Ud\ n\ ' dcdi' Uh] cb \YU h\ UbX' U[Y] b[' dcdi' Uh] cb' W\FY" (" ' 8Yj Y' cd' h\Y' V\ubVdh' cZ' [' cVU'] ggi Yg' hc' df chYVh h\Y' Ybj] f cbaYbhg' UbX' df cachY' Ybj] f cbaYbhU' \YU h\ gYfj] Vg") " ' 7cbh] bi Y' UbX'] bVWYUgY' \YU h\ fY' UhYX' 9b['] g\ V\aaib] V\Uh] cb' g_ " " GdYVWZ] WVti fgY' cV^YVh] j Yg. 5ZhYf' h\Y' gi VVggZi' ' V\ad' Yh] cb' cZ' h\Y' Vti fgYz ghi XYbhg' k] ' ' VY' UV' Y' hc. % ' FYVt[b] nY' h\Y' [' cVU' Ybj] f cbaYbhU' V\Ub[] b[YZZYVhg' UbX' Ygh] aUhY' h\Y' di V'] W\YU h\] bhYfj Ybh] cbg hc' dfYj Ybh'] bZYVh] ci g' X] gYUgYg" &" =XYbh] Zm h\Y' gcV\U' UbX' Ybj] f cbaYbhU'] adUW' cb fYdf cXi Vh] j Y' \YU h\ UbX' dfYj Ybh] j Y' UbX' V\ubfc' aYUgi fY' cZ' gYl i U' m hf Ubga] hhYX' X] gYUgYg" ' " ' 8YZ] bY' YaYf [] b[z' fY! YaYf [] b[z' V\fc] WUbX' bcb! V\aaib] V\U' Y' X] gYUgYg' dUhhYf b' UbX' ghUhY' h\Y' V\ubfc' df cV\Xi fYg" (" ' l bXYfghUbX' h\Y' XcaYgh] Wj] c' YbVW' UbX' V\adUfY' h\Y V\fwaghUbVg' cZ' [YbXYf! VUgYX' j] c' YbVW") " ' 9l d' U] b' h\Y' W] aUhY' V\Ub[] b[' V\bgYei YbVg' UbX ' i aUb' \YU h\ YZZYVhgz'] bWi X] b[' dfYgYbh' UbX' Zi hi fY f] g_g"</p>	

		%" &" ' " (" ")" " %" &" ' " (" ")" "	

	<p>FYgYUfVW AYh\cXc c[m UbX' <YU h\ GngghYa AUbu[YaYbh</p>	<p>H.]g' Vti fgY']g' XYg] [bYX' Zcf' [fUXi UhY' ghi XYbhg hc' g\UFY' h\Y' bYVggUfmi h\YcfYh] WU' _bck' YX[Y' UbX Uhh] hi XY' hc' XYj Y' cd' h\Y' dUf hbYfg\ d' Zcf' \YU h\ dfchYVh] cb' Zfca' W] aUhY' f] g_g" h\Y' aU] b' hcd] Vg' UfY gY' YVhYX'] b' h\]g' Vti fgY' hc' g\UFY' h\Y' hfUX] h] cbU gVWbUf] c' fY' UhYX' hc' W] aUhY' V\Ub[Y' UbX' \YU h\ YZZYVhg" H\Y' cj YfU' \cV^YVh] j Yg' cZ' h\Y' Vti fgY' Zcf' ghi XYbhg' UfY hc. %' 8YgVW] VY' h\Y' \UhUfXg' UbX' \YU h\ YZZYVhg' Xi Y' hc W] aUhY' V\Ub[] b[' UbX' ci h'] bY' h\Y' bYVggUfmi dfYj Ybh] j Y aYUgi fYg" &" : cfai' UhY' h\Y' dfYj Ybh] j Y' UbX' V\ubfc' : aYh\cXg' cZ V\aacb' j] fU' UbX' ch\Yf'] bZYVh] ci g' X] gYUgYg" ' " : 9i d' U] b' h\Y'] adcfhUbVW' cZ' XYac[fUd\mz' dcdi' Uh] cb \YU h\ UbX' U[Y] b[' dcdi' Uh] cb' W\FY" (" 8Yj Y' cd' h\Y' V\ubWdh' cZ' [' cVU'] ggi Yg' hc' dfchYVh h\Y' Ybj] fcbaybhg' UbX' dfcachY' Ybj] fcbaybhU' \YU h\ gYfj] Vg")" : 7cbh] bi Y' UbX'] bVWYUgY' \YU h\ fY' UhYX' 9b['] g\ V\aaib] V\Uh] cb' g_` `" GdYVZ] WVti fgY' cV^YVh] j Yg. 5ZhYf' h\Y' gi VVggZi' V\ad' Yh] cb' cZ' h\Y' Vti fgYz ghi XYbhg' k] ` ` VY' UV' Y' hc. %' FYVt[b] nY' h\Y' [' cVU' Ybj] fcbaybhU' V\Ub[] b[YZZYVhg' UbX' Ygh] aUhY' h\Y' di V'] W\YU h\] bhYfj Ybh] cbg hc' dfYj Ybh'] bZYVh] ci g' X] gYUgYg" &" =XYbh] Zm h\Y' gcV\U' UbX' Ybj] fcbaybhU'] adUW' cb fYdfcXi Vh] j Y' \YU h\ UbX' dfYj Ybh] j Y' UbX' V\ubfc' aYUgi fY' cZ' gYl i U' m hfUbga] hhYX' X] gYUgYg" ' " : 8YZ] bY' YaYf[] b[z' fY! YaYf[] b[z' V\fc] WUbX' bcb! V\aaib] V\U' Y' X] gYUgYg' dUhhYf' b' UbX' ghUhY' h\Y' V\ubfc' dfcV\Xi fYg" (" i bXYfghUbX' h\Y' XcaYgh] Wj] c' YbVW' UbX' V\adUfY' h\Y V\fwaghUbVg' cZ' [YbXYf! VUgYX' j] c' YbVW")" : 9i d' U] b' h\Y' W] aUhY' V\Ub[] b[' V\bgYei YbVg' UbX \i aUb' \YU h\ YZZYVhgz'] bWi X] b[' dfYgYbh' UbX' Zi hi fY f] g_g"</p>	

.....

99

.....

	<p>5Xj UbWwX' FYgYUfVw AYh\cXc' c[m] b' <YU h\ GvY YbW</p>	<p>H.]g' Vti fgY']g'] bhYbXYX' Zcf' [fUXi UhY' Vti fgY ghi XYbhg" '=h']g' hc'] bZcfa' h\Y' Udd'] WUh] cb' cf' dfUW] W cZ' fYgYUfVw'] b' \YU h\ gVY YbW' hc' UXXfYgg' h\Y' di V'] W \YU h\]ggi Yg" H\Y' cj YfU' `` cV^VW] j Yg' cZ' h\Y' Vti fgY' Zcf' ghi XYbhg' UfY hc. %` ` 5WVf UhY' m XYgW] WY' h\Y' Zi bXUaYbhU' ` VtbWdhg' UbX Uddf cUWYg'] b' ei U'] hUh] j Y' UbX' ei Ubh] hUh] j Y' fYgYUfVw aYh\cXc' c[m &" ` =XYbh] Zm\ck' acfU' z' Yh\] W] z' W' hi fU' z' gcV] U' z dc'] h] W' ` UbX' Ybj] f cbaYbhU' `]ggi Yg' UbX fYgdcbg] V] `] h] Yg'] adUW' ` cb' fYgYUfVw" " " ` 7f] h] W' ` m fY]] Yk' UbX' W] h] ei Y' h\Y' `] hYf Uhi fY i g] b[' j U'] X' fYgci fWgZ' UbX' h\YfYVmi dfcj] XY'] bZcf aYX cd] b] cb" (" ` 8Yacbgf UhY' g_] ` g'] b' W] h] W' ` h\] b_] b[` Vm UWVf UhY' m gnbh\Yg] n] b[` bYk' fYgYUfVw' fYgi' hg'] b gVY YbW#\YU h\) " ` 5dd' m] bhfcXi Vhcf m XYgW] dh] j Y' UbX'] bZYfYbh] U ghUh] gh] W' ` VtbWdhg' UbX' hYWb] ei Yg'] b' h\Y' UbU' mg] g cZ' XUhU" GdYW] Z] W Vti fgY' cV^VW] j Yg. 5ZhYf' gi WVggZi ` ` Vtad' Yh] cb' cZ' h\Y' Vti fgYz' ghi XYbhg k] ` ` VY' U' Y' hc. %` ` 8YZ] bY' h\Y' df] bV] d' Yg' cZ' fYgYUfVw'] b' \YU h\ gVY YbW' hc' Yb\UbW' h\Y' di V'] W\YU h\ ` df cV' Yag" &" ` = ` i ghf UhY' h\Y' UggcV] Uh] cb' k] h\ h\Y' Yl d CGI fY' UbX f] g_ ZUWcf g'] b' \YU h\ gVY YbW" " " ` 8YgV] VY' h\Y' X] ZZfYbh' hndYg' cZ' fYgYUfVw aYh\cXc' c[m] bj c' j YX'] b' \YU h\ gVY YbW" (" ` 9j U' i UhY' h\Y'] ad'] WUh] cbg' cZ' fYgYUfVw aYh\cXc' c[] Yg' cb' Yj] XYbWY' VUgYX' df UW] W' ` UbX' h\Y' f] adUW' ` cb' W] b] W' ` df UW] W' ` UbX' dc'] Vm) " ` 8Yacbgf UhY' g_] ` g' Vtbg] ghYbh' k] h\ `] ZY' cb[` YUf b] b["</p>	

		<p>5xj Ubvwx' GhUh] gh] Vg] b' <YU h\ GVYbWV</p>	
		<p>f5xj Ubvwx' GhUh] gh] Vg] b' <YU h\ GVYbWVfi' dfcj] XYg' Ub cddcf hi b] hm hc' YUf b' Uxj Ubvwx' ghUh] gh] W' aYh\cXg Vzaacb' mi gYX] b' fYgYUfVXYg] b' \YU h\ gVYbWVg" AYh\cXg' fYZYfYX] b' h\Y' YVWi fY Vtj Yf' ghfi VWi fU Yei Uh] cb' acXY'] b[' fG9A' cf' Vtj Uf] UbvW' ghfi VWi fY UbU mg] g" =h' U gc' Vtj Yfg' h\Y' _bck' YX[Y' cb' \mch\Yg] g hYgh] b[' k] h\ h\Y'] XYU' cb' h\Y' XYhYf a] bUh] cb' cZ' gUad' Y g] nY' H] g' YVWi fY] g' dfYgYbhYX' aU] b' m] b' 9b[' g\ Zcf h\Y' Vtj Yb] YbW' cZ' cj YfgYU' ghi XYbhg"</p> <p>5xj Ubvwx' GhUh] gh] Vg] b' <YU h\ GVYbWV</p> <p style="text-align: center;">G9A</p>	

	;`cVU`<YU`h\ 7\U`Yb[Yg`UbX Gc`i`h]cbg`	H.]g`WUgg`]g`cdYb`hc`[fUXi`UhY`ghi`XYbhg`]b <YU`h`GWYbWgž`k\c`]bhYbX`hc`kcf`_`cb`]ggi`Yg`]b `cVU`ž`Vti`bhf`m`Yj`Y`ž`UbX`#cf`kcf`Xk]XY`KY`k]` X]gWgg`K<C`G8`g`fIGi`ghU]bUV`Y`8Yj`Y`cdaYbh`;`cU`gt`UbX gc`i`h]cbg`]bhf`cXi`WX`Zf`ca`K<C/`U`gc`kY`k]`X]gWgg i`g]b[`ci`f`fYU`ghf`UhY[]WUddf`cUWYg`]ad`YaYbhYX`]b >UdUb`UbX`ch\Yf`Vti`bhf]Yg`GdYVYU`[i`Ygh`gdYU_Yf`g`Zcf `YVti`f`Y`UbX`X]gWgg]cb`k]`VY`]bj`]hYX" 5h`h\Y`Z]f`gh`gYgg]cbž`ghi`XYbhg`k]`gY`YVti`h\Y]f h\YaY`kcf`_]b[`h\Y`ci`[\`h\Y`gYaYghYfž`VUgYX`cb`nci`f`ckb gdYVYU`hm`UbX`]bhYfYgh`5`gcž`kY`X]gWgg`h\YaYg`VY`ck Zf`ca`k]XY`j]Ykdc]bhg" GdYVYU]WVti`f`gY`cV`YVti]j`Yg. 5ZhYf`gi`WVggZi`Vti`ad`Yh]cb`cZ`h\Y`Vti`f`gYž`ghi`XYbhg k]`VY`UV`Y`hc. %`9i`d`U]b`h\Y`[`cVU`YU`h\`ghf`UhY[]Yg`UbX`Ygh]aUhY h\Y`>UdUb`di`V`]W\YU`h\`gYf]]WVg`UbX`Zi`hi`fY`bYXg" &`8YgWV]W`h\Y`XYj`Y`cdaYbh`cZ`]bhYf`bUh]cbU`YU`h\ UbX`df]cf]hm`df`c[f`Uag`cZ`gi`ghU]bUV`Y`XYj`Y`cdaYbh [cU`g`fIG8`gt` `8YhYVti`h\Y`adUVti`cZ`[`cVU`]nUh]cb`UbX`Vti`adi`hY`h\Y V\U`Yb[Yg`cZ`i`fVUb`YU`h\`WVY`aUbU]YaYbh" ("`=XYbh]Zm`h\Y`YaYf[]b[/`fYYaYf[]b[`YU`h\`h\Y`Uhg UbX`gi`]hUV`Y`Uddf`cUWYg`hc`cj`YfVti`h\Y`g]hi`Uh]cbg")`5V`bck`YX[Y`h\Y`UW]Yj`YaYbh`cZ`di`V`]W\YU`h\ XYj`Y`cdaYbh`UbX`XYj`Y`cd`Vti`ai`b]VW]cb`g_]`g`hc fYXi`W`[`cVU`YU`h\`fY`UhYX`Vi`fXYb"	

K<C`G8`g

G8`g

#

		% *	+ %
		7cWfUbY' @] VfUfm 9j] XYbWV' VUgYX' AYX] WbY' fBi f g] b[t	9j] XYbWV
		EC@	
		#	

		W] h] ei Y	

		$\frac{1}{2}$ $\frac{1}{4}$ $-$ $\frac{1}{6}$ $\frac{1}{8}$ $+$ $\frac{1}{10}$ $\frac{1}{12}$ $\frac{1}{15}$ $\frac{1}{18}$	

		#	#
		#	#
		FYj]gY	UWVdh

		%` &` '` (`	
		#	
		% & ,	
		=bhf cXi Vh] cb 8] gVWgg] cb	

		EO@	
		%% &% %& && &` &(,` &) %`	

		EC@	
		D7F	D7F

		&	
		(

	G8; g	IB8D	G8; G8; %+ G8; g
	G8; g		% G8; g IB8D
)& -- -,)'	& & & &

		<p># ,</p> <p>) , %</p> <p>% \$ %</p> <p>% (%</p> <p>) - %</p> <p>* \$ %</p> <p>% %</p> <p>* % %</p> <p>% \$ %</p>	
		<p># ,</p> <p>& * - %</p> <p>· ·</p> <p>* + %</p> <p>* , %</p> <p>] DG</p> <p>(%</p> <p>% \$ %</p> <p>% \$ (%</p> <p>% \$ %</p>	

		" " " " " " "	
		# , +& % FB5 * %) % +% %), % +\$ % * , % + % %0 5A5HND J=G<K5 >99H %	

		<p># ,</p> <p>+ ' ' &</p> <p>% & %</p> <p>%\$+ %</p> <p>%&% %</p> <p>% % %</p> <p>% ' ' %</p> <p>% (' ' %</p>	
		<p># ,</p> <p>* (' %</p> <p>- ' %</p> <p>% ' %</p> <p>%& ' %</p> <p>*) ' %</p> <p>** ' %</p> <p>+ * ' %</p> <p>' % %</p>	

		<p># ,</p> <p>+(' %</p> <p>+) ' %</p> <p>* \$ ' %</p> <p>* % ' %</p> <p>+ * ' %</p> <p>% & ' %</p> <p>% & & ' ++ ' %</p> <p>) + ' %</p>	
		<p># ,</p> <p>% %</p> <p>+ , ' %</p> <p>% \$, ' %</p> <p>+ - ' %</p> <p>, \$ ' %</p> <p>% % * ' %</p> <p>% % + ' %</p> <p>+ (' %</p>	

		<p># ,</p> <p>*_ · &</p> <p>%\$- · &</p> <p>%&(· &</p> <p>%&) · &</p>	
		<p># ,</p> <p>+ (· %</p> <p>%%& %</p> <p>%& · %</p> <p>%&\$ · %</p> <p>, % %</p> <p>%&* · %</p> <p>%%\$ · %</p> <p>%& · %</p>	

<p>9bj] f cbaYbh' UbX <YU h\</p>		<p>H.]g' Vti fgY']g' XYg] [bYX' Zcf' [fUXi UhY' ghi XYbhg hc' g\UFY' h\Y' bYVggUfmi h\YcfYh] WU' _bck' YX[Y' UbX Uhh] hi XY' hc' XYj Y' cd' h\Y' dUf hbYfg\ d' Zcf' \YU h\ dfchYVh] cb' Zfca' W] aUhY' f] g_g" ' H\Y' aU] b' hcd] Vg' UfY gY' YVhYX'] b' h\]g' Vti fgY' hc' g\UFY' h\Y' hfUX] h] cbU gVWbUf] c' fY' UhYX' hc' W] aUhY' V\Ub[Y' UbX' \YU h\ YZZYVhg"</p> <p>H\Y' cj YfU' ' cV^YVh] j Yg' cZ' h\Y' Vti fgY' Zcf' ghi XYbhg' UfY hc.</p> <p>%' 8YgV] VY' h\Y' \UhUfXg' UbX' \YU h\ YZZYVhg' Xi Y' hc W] aUhY' V\Ub[] b[' UbX' ci h'] bY' h\Y' bYVggUfmi dfYj Ybh] j Y aYUgi fYg"</p> <p>&" : cfai' UhY' h\Y' dfYj Ybh] j Y' UbX' V\ubfc' ' aYh\cXg' cZ V\aacb' j] fU' UbX' ch\Yf'] bZYVh] ci g' X] gYUgYg"</p> <p>' " ' 9l d' U] b' h\Y'] adcfhUbV' cZ' XYac[fUd\ n\ dcdi' Uh] cb \YU h\ UbX' U[Y] b[' dcdi' Uh] cb' W\FY"</p> <p>(" 8Yj Y' cd' h\Y' V\ubVdh' cZ' [' cVU'] ggi Yg' hc' dfchYVh h\Y' Ybj] f cbaYbhg' UbX' dfcachY' Ybj] f cbaYbhU' \YU h\ gYfj] Vg"</p> <p>) " ' 7cbh] bi Y' UbX'] bVWYUgY' \YU h\ fY' UhYX' 9b['] g\ V\aaib] V\Uh] cb' g_` ` "</p> <p>GdYVZ] WVti fgY' cV^YVh] j Yg.</p> <p>5ZhYf' h\Y' gi VVggZi' ' V\ad' Yh] cb' cZ' h\Y' Vti fgYz ghi XYbhg' k] ` ` VY' UV' Y' hc.</p> <p>%' FYVt[b] nY' h\Y' [' cVU' Ybj] f cbaYbhU' V\Ub[] b[YZZYVhg' UbX' Ygh] aUhY' h\Y' di V'] W\YU h\] bhYfj Ybh] cbg hc' dfYj Ybh'] bZYVh] ci g' X] gYUgYg"</p> <p>&" =XYbh] Zmi h\Y' gcV\U' UbX' Ybj] f cbaYbhU'] adUWh' cb fYdfcXi Vh] j Y' \YU h\ UbX' dfYj Ybh] j Y' UbX' V\ubfc' aYUgi fY' cZ' gYl i U' ` mi hfUbg] hhYX' X] gYUgYg"</p> <p>' " ' 8YZ] bY' YaYf[] b[z' fY! YaYf[] b[z' V\fc] WUbX' bcb! V\aaib] V\U' Y' X] gYUgYg' dUhhYf' b' UbX' ghUhY' h\Y' V\ubfc' dfcV\Xi fYg"</p> <p>(" i bXYfghUbX' h\Y' XcaYgh] Wj] c' YbVW' UbX' V\adUfY' h\Y V\fwaghUbVg' cZ' [YbXYf! VUgYX' j] c' YbVW"</p> <p>) " ' 9l d' U] b' h\Y' W] aUhY' V\Ub[] b[' V\bgYei YbVg' UbX \i aUb' \YU h\ YZZYVhgz'] bWi X] b[' dfYgYbh' UbX' Zi hi fY f] g_g"</p>	

		%" &" ' " (" ")" " %" &" ' " (" ")" "	

	<p>FYgYUfVW AYh\cXc c[m UbX' <YU h\ GngghYa AUbu[YaYbh</p>	<p>H.]g' Vti fgY']g' XYg] [bYX' Zcf' [fUXi UhY' ghi XYbhg hc' g\UFY' h\Y' bYVWggUfmi h\YcfYh] WU' _bck' YX[Y' UbX Uhh] hi XY' hc' XYj Y' cd' h\Y' dUf hbYfg\ d' Zcf' \YU h\ dfchYVh] cb' Zfca' W] aUhY' f] g_g" h\Y' aU] b' hcd] Vg' UfY gY' YVhYX'] b' h\]g' Vti fgY' hc' g\UFY' h\Y' hfUX] h] cbU gVWbUf] c' fY' UhYX' hc' W] aUhY' V\Ub[Y' UbX' \YU h\ YZZYVh"] H\Y' cj YfU' \cV^YVh] j Yg' cZ' h\Y' Vti fgY' Zcf' ghi XYbhg' UfY hc. % ' 8YgVW] VY' h\Y' \UhUfXg' UbX' \YU h\ YZZYVh" Xi Y' hc W] aUhY' V\Ub[] b[' UbX' ci h'] bY' h\Y' bYVWggUfmi dfYj Ybh] j Y aYUgi fYg" &" : cfai' UhY' h\Y' dfYj Ybh] j Y' UbX' V\ubfc' : aYh\cXg' cZ V\aacb' j] fU' UbX' ch\Yf'] bZYVh] ci g' X] gYUgYg" ' " : 9i d' U] b' h\Y'] adcfhUbVW' cZ' XYac[fUd\mz' dcdi' Uh] cb \YU h\ UbX' U[Y] b[' dcdi' Uh] cb' W\FY" (" 8Yj Y' cd' h\Y' V\ubWdh' cZ' [' cVU'] ggi Yg' hc' dfchYVh h\Y' Ybj] fcbaybhg' UbX' dfcachY' Ybj] fcbaybhU' \YU h\ gYfj] Vg") " : 7cbh] bi Y' UbX'] bVWYUgY' \YU h\ fY' UhYX' 9b['] g\ V\aaib] V\Uh] cb' g_` ` " GdYVWZ] WVti fgY' cV^YVh] j Yg. 5ZhYf' h\Y' gi V\WggZi' V\ad' Yh] cb' cZ' h\Y' Vti fgYz ghi XYbhg' k] ` ` VY' UV' Y' hc. % ' FYVt[b] nY' h\Y' [' cVU' Ybj] fcbaybhU' V\Ub[] b[YZZYVh" UbX' Ygh] aUhY' h\Y' di V'] W\YU h\] bhYfj Ybh] cbg hc' dfYj Ybh'] bZYVh] ci g' X] gYUgYg" &" =XYbh] Zm h\Y' gcV\U' UbX' Ybj] fcbaybhU'] adUWV' cb fYdfcXi Vh] j Y' \YU h\ UbX' dfYj Ybh] j Y' UbX' V\ubfc' aYUgi fY' cZ' gYl i U' m hfUoga] hhYX' X] gYUgYg" ' " : 8YZ] bY' YaYf[] b[z' fY! YaYf[] b[z' V\fc] WUbX' bcb! V\aaib] V\U' Y' X] gYUgYg' dUhhYf' b' UbX' ghUhY' h\Y' V\ubfc' dfcV\Xi fYg" (" i bXYfghUbX' h\Y' XcaYgh] Wj] c' YbVW' UbX' V\adUfY' h\Y V\fwaghUbVWg' cZ' [YbXYf! VUgYX' j] c' YbVW") " : 9i d' U] b' h\Y' W] aUhY' V\Ub[] b[' V\bgYei YbVWg' UbX Ni aUb' \YU h\ YZZYVhgz'] bWi X] b[' dfYgYbh' UbX' Zi hi fY f] g_g"</p>	

		<p># %</p> <p>, ' %</p> <p>8B5 , (%</p> <p>' & %</p> <p>' ' %</p> <p>,) %</p> <p>%) %</p> <p>% * %</p> <p>% + % , % - %</p> <p>% , %</p> <p>% - %</p> <p>% \$ %</p> <p>% % %</p> <p>% () %</p> <p>% * %</p> <p>% + %</p>	
		<p>BAFL <D@7 AGL</p>	

		(D.UfaUWt_] bYh] Vg	
	FYgYUFVW' GYa] bUF FYgYUFVW' GYa] bUF	& ' 6Ug] W 7'] b] W'	
		ž' ž' ž' ž' ž' ž'	
	BAFŁ	<D@7 AGŁ	

	9b[`]g\` DfYgYbhUh] cb	% &	%

	G8; g	IB8D	G8; G8; %+ G8; g
	G8; g		% G8; g IB8D
)& -- -,)'	& & & &

		<p> ', %& ' %), ' % %\$\$ ' % * & ' * \$ ' % %&- ' % <AbYh <] fcg\] aU' AXX] WU' BYhkc f _) + ' % B86 BUh] cbU' XUhU' VUgY %\$\$ ' % * ' ' % </p>	

		<p># ,</p> <p>) , %</p> <p>% \$ %</p> <p>% (%</p> <p>) - %</p> <p>* \$ %</p> <p>% %</p> <p>* % %</p> <p>% \$ %</p>	
		<p># ,</p> <p>& * - %</p> <p>· ·</p> <p>* + %</p> <p>* , %</p> <p>] DG</p> <p>(%</p> <p>% \$ %</p> <p>% \$ (%</p> <p>% \$) %</p>	

		" " " " " " "	
		# , +& % FB5 * %) % +% %), % +\$ % *, % + %	

		<p># ,</p> <p>+ ' ' &</p> <p>% & %</p> <p>%\$+ %</p> <p>%&% %</p> <p>% % %</p> <p>% ' ' %</p> <p>% (' ' %</p>	
		<p># ,</p> <p>* (' %</p> <p>- ' %</p> <p>% ' %</p> <p>%& ' %</p> <p>*) ' %</p> <p>** ' %</p> <p>+ * ' %</p> <p>' % %</p>	

		<p># ,</p> <p>+(' %</p> <p>+) ' %</p> <p>* \$ ' %</p> <p>* % ' %</p> <p>+ * ' %</p> <p>% & ' %</p> <p>% & & ' ++ ' %</p> <p>) + ' %</p>	
		<p># ,</p> <p>% %</p> <p>+ , ' %</p> <p>% \$, ' %</p> <p>+ ' %</p> <p>, \$ ' %</p> <p>% % * ' %</p> <p>% % + ' %</p> <p>+(' %</p>	

		<p># ,</p> <p>*_ · &</p> <p>%\$- · &</p> <p>%&(· &</p> <p>%&) · &</p>	
		<p># ,</p> <p>+ (· %</p> <p>%%& %</p> <p>%& · %</p> <p>%&\$ · %</p> <p>, % %</p> <p>%&* · %</p> <p>%%\$ · %</p> <p>%& · %</p>	

	<p>9bj] f cbaYbh' UbX <YU h\</p>	<p>H.]g' Vti fgY']g' XYg] [bYX' Zcf' [fUXi UhY' ghi XYbhg hc' g\UFY' h\Y' bYVggUfm h\YcfYh] WU' _bck' YX[Y' UbX Uhh] hi XY' hc' XYj Y' cd' h\Y' dUf hbYfg\ d' Zcf' \YU h\ df chYVh] cb' Zf ca' W] aUhY' f] g_g" ' H\Y' aU] b' hcd] Vg' UfY gY' YVhYX'] b' h\]g' Vti fgY' hc' g\UFY' h\Y' hf UX] h] cbU gVWbUf] c' fY' UhYX' hc' W] aUhY' V\Ub[Y' UbX' \YU h\ YZZYVhg" H\Y' cj YfU' ' cV^YVh] j Yg' cZ' h\Y' Vti fgY' Zcf' ghi XYbhg' UfY hc. % ' 8YgVW] VY' h\Y' \UhUfXg' UbX' \YU h\ YZZYVhg' Xi Y' hc W] aUhY' V\Ub[] b[' UbX' ci h'] bY' h\Y' bYVggUfm dfYj Ybh] j Y aYUgi fYg" &" : cf ai' UhY' h\Y' dfYj Ybh] j Y' UbX' V\ubfc' ' aYh\cXg' cZ V\aacb' j] fU' UbX' ch\Yf'] bZYVh] ci g' X] gYUgYg" ' " ' 9l d' U] b' h\Y'] adcf hUbVW' cZ' XYac[f Ud\ n\ dcdi' Uh] cb \YU h\ UbX' U[Y] b[' dcdi' Uh] cb' W\FY" (" ' 8Yj Y' cd' h\Y' V\ubWdh' cZ' [' cVU'] ggi Yg' hc' df chYVh h\Y' Ybj] f cbaYbhg' UbX' df cachY' Ybj] f cbaYbhU' \YU h\ gYfj] Vg") " ' 7cbh] bi Y' UbX'] bVWYUgY' \YU h\ fY' UhYX' 9b['] g\ V\aaib] V\Uh] cb' g_` ` " GdYVWZ] WVti fgY' cV^YVh] j Yg. 5ZhYf' h\Y' gi VVggZi' ' V\ad' Yh] cb' cZ' h\Y' Vti fgYz ghi XYbhg' k] ` ` VY' UV' Y' hc. % ' FYVt[b] nY' h\Y' [' cVU' Ybj] f cbaYbhU' V\Ub[] b[YZZYVhg' UbX' Ygh] aUhY' h\Y' di V'] W\YU h\] bhYfj Ybh] cbg hc' dfYj Ybh'] bZYVh] ci g' X] gYUgYg" &" =XYbh] Zm h\Y' gcV\U' UbX' Ybj] f cbaYbhU'] adUW' cb fYdf cXi Vh] j Y' \YU h\ UbX' dfYj Ybh] j Y' UbX' V\ubfc' aYUgi fY' cZ' gYl i U' m hf Ubga] hhYX' X] gYUgYg" ' " ' 8YZ] bY' YaYf [] b[z' fY! YaYf [] b[z' V\fc] WUbX' bcb! V\aaib] V\U' Y' X] gYUgYg' dUhhYf b' UbX' ghUhY' h\Y' V\ubfc' df cV\Xi fYg" (" ' l bXYfghUbX' h\Y' XcaYgh] Wj] c' YbVW' UbX' V\adUfY' h\Y V\fwaghUbVg' cZ' [YbXYf! VUgYX' j] c' YbVW") " ' 9l d' U] b' h\Y' W] aUhY' V\Ub[] b[' V\bgYei YbVg' UbX ' i aUb' \YU h\ YZZYVhgz'] bWi X] b[' dfYgYbh' UbX' Zi hi fY f] g_g"</p>	

		%" &" ' " (" ")" " %" &" ' " (" ")" "	

	<p>FYgYUfVW AYh\cXc c[m UbX' <YU h\ GngghYa AUbu[YaYbh</p>	<p>H.]g' Vti fgY']g' XYg] [bYX' Zcf' [fUXi UhY' ghi XYbhg hc' g\UFY' h\Y' bYVWggUfmi h\YcfYh] WU' _bck' YX[Y' UbX Uhh] hi XY' hc' XYj Y' cd' h\Y' dUf hbYfg\ d' Zcf' \YU h\ dfchYVh] cb' Zfca' W] aUhY' f] g_g" h\Y' aU] b' hcd] Vg' UfY gY' YVhYX'] b' h\]g' Vti fgY' hc' g\UFY' h\Y' hfUX] h] cbU gVWbUf] c' fY' UhYX' hc' W] aUhY' V\Ub[Y' UbX' \YU h\ YZZYVhgz" H\Y' cj YfU' \cV^YVh] j Yg' cZ' h\Y' Vti fgY' Zcf' ghi XYbhg' UfY hc. % ' 8YgVW] VY' h\Y' \UhUfXg' UbX' \YU h\ YZZYVhgz' Xi Y' hc W] aUhY' V\Ub[] b[' UbX' ci h'] bY' h\Y' bYVWggUfmi dfYj Ybh] j Y aYUgi fYg" &" : cfai' UhY' h\Y' dfYj Ybh] j Y' UbX' V\Ub[c' aYh\cXg' cZ V\aacb' j] fU' UbX' ch\Yf'] bZYVh] ci g' X] gYUgYg" ' " ' 9i d' U] b' h\Y'] adcfhUbVW' cZ' XYac[fUd\mz' dcdi' Uh] cb \YU h\ UbX' U[Y] b[' dcdi' Uh] cb' W\FY" (" ' 8Yj Y' cd' h\Y' V\UbWdh' cZ' [' cVU'] ggi Yg' hc' dfchYVh h\Y' Ybj] fcbaybhg' UbX' dfcachY' Ybj] fcbaybhU' \YU h\ gYfj] Vg") " ' 7cbh] bi Y' UbX'] bVWYUgY' \YU h\ fY' UhYX' 9b['] g\ V\aaib] V\Uh] cb' g_ " " GdYVWZ] WVti fgY' cV^YVh] j Yg. 5ZhYf' h\Y' gi VVWggZi' V\ad' Yh] cb' cZ' h\Y' Vti fgYz ghi XYbhg' k] ' ' VY' UV' Y' hc. % ' FYVt[b] nY' h\Y' [' cVU' Ybj] fcbaybhU' V\Ub[] b[YZZYVhgz' UbX' Ygh] aUhY' h\Y' di V'] W\YU h\] bhYfj Ybh] cbg hc' dfYj Ybh'] bZYVh] ci g' X] gYUgYg" &" =XYbh] Zmi h\Y' gcV\U' UbX' Ybj] fcbaybhU'] adUWV' cb fYdfcXi Vh] j Y' \YU h\ UbX' dfYj Ybh] j Y' UbX' V\Ub[c' aYUgi fY' cZ' gYI i U' m hfUbga] hhYX' X] gYUgYg" ' " ' 8YZ] bY' YaYf[] b[z' fY! YaYf[] b[z' V\fc] WUbX' bcb! V\aaib] V\U' Y' X] gYUgYg' dUhhYf' b' UbX' ghUhY' h\Y' V\Ub[c' dfcV\Xi fYg" (" ' I bXYfghUbX' h\Y' XcaYgh] Wj] c' YbVW' UbX' V\adUfY' h\Y V\fwaghUbVWg' cZ' [YbXYf! VUgYX' j] c' YbVW") " ' 9i d' U] b' h\Y' W] aUhY' V\Ub[] b[' V\bgYei YbVWg' UbX \i aUb' \YU h\ YZZYVhgz'] bWi X] b[' dfYgYbh' UbX' Zi hi fY f] g_g"</p>	

		, +) & * + ' + + \$ ' , ' - & +) + ' , ' - , - + % * , - \$ - % - & - ' , (\$ - ((-) + , % + , \$ - * % &	

		, +) & * + ' + +\$ ', ' - &+)+ '', '', ', - +%, *, -\$, -%, -& -' (\$, -((-), +,' %, + ,\$ -*, %&	

	9b[`] g\` DfYgYbhUh] cb	% &	%

%			0 ' % (2					% & ' %	S' % (* %	%	%)
&			0 ' % (2					% ' %	S' % (%	%	%)
.			0 ' % (2					% & ' %	S' % (* %	%	%)
(			0 ' % (2					% & ' %	S' % (* %	%	%)
)			0 ' % (2					% ' %	S' % (%	%	%)
*			0 ' % (2					% ' %	S' % (%	%	%)
+			0 ' % (2					% ' %	S' % (%	%	%)
'			0 ' % (2					% ' %	S' % (%	%	%)
-			0 ' % (2					% ' %	S' % (%	%	%)
%\$			0 ' % (2					% ' %	S' % (%	%	%)
%%			0 ' % (2					% & ' %	S' % (* %	%	%)
%&			0 ' % (2					% & ' %	S' % (* %	%	%)
%			0 ' % (2					% & ' %	S' % (* %	%	%)
%{			0 ' % (2					% ' %	S' % (%	%	%)
%}			0 ' % (2					% & ' %	S' % (* %	%	%)

%			0 ' % (2					%	\$% (%	%	&+"%\$)
%+			0 ' % (2					%	\$% (%	%	%"+)
%			0 ' % (2					%	\$% (%	%	% "%)
%			0 ' % (2					%	\$% (%	%	% "%)
&\$			0 ' % (2					%	\$% (%	%	' \$% ()
&%			0 ' % (2					%	\$% + (%	%	&\$% ")
&&			0 ' % (2					%	\$% (%	%	%" ()
&			0 ' % (2					%	\$% (%	%	%\$ -)
&(			0 ' % (2					%	\$% (%	%	%" ()
&)			0 ' % (2					%	\$% (%	%	," ()
&*			0 ' % (2					%	\$% (%	%	%\$ %%)
&+			0 ' % (2					%	\$% (%	%	%",)
&			0 ' % (2					%	\$% (%	%	-" ()
&-			0 ' % (2					%	\$% & (%	%	&&" &)
' \$			0 ' % (2					%	\$% (%	%	&+" -)
' %			0 ' % (2					%	\$% (%	%	%" ()
' &			0 ' % (2					%	\$% (%	%) "%%)
' .			0 ' % (2					%	\$% (%	%	%" ()
' (			0 ' % (2					%	\$% (%	%	%" ()

'			0 ' % (2					% ' (%	% ' %&	% ' %	& " ()	
*			0 ' % (2					% ' (%	% ' %&	% ' %	& " ()	
+			0 ' % (2					% ' (%	% ' %&	% ' %	% " &)	
,			0 ' % (2					% ' (%	% ' %&	% ' %	' \$ ")	
-			0 ' % (2					% ' (%	% ' %&	% ' %	' " ()	
\$			0 ' % (2					% ' (%	% ' %&	% ' %	& % " &)	
(%			0 ' % (2					% ' (%	% ' %&	% ' %	% " ()	
(&			0 ' % (2					% ' (%	% ' %&	% ' %	& " %\$)	
('			0 ' % (2					% ' (%	% ' %&	% ' %) " %&)	
((			0 ' % (2					% ' (%	% ' %&	% ' %) " ()	
()			0 ' % (2					% ' (%	% ' %&	% ' %	% % %\$)	
(*			fl t 0 ' % (2					% ' (%	% ' %&	% ' %	& " -)	
(+			0 ' % (2					% ' (%	% ' %&	% ' %	& " +)	
(,			0 ' % (2					% ' (%	% ' %&	% ' %	' \$ ")	
(-			0 ' % (2					% ' (%	% ' %&	% ' %	% " ()	
)\$			0 ' % (2					% ' (%	% ' %&	% ' %	& " +)	
)%			0 ' % (2					% ' (%	% ' %&	% ' %	& " ")	
)&			0 ' % (2					% ' (%	% ' %&	% ' %) " ()	
)'			0 ' % (2					% ' (%	% ' %&	% ' %	& " ")	
)()			0 ' % (2					% ' (%	% ' %&	% ' %	' " ()	
))			0 ' % (2					% ' (%	% ' %&	% ' %	& " +)	

++			0 ' % (2				% & ^ % & (% % % ' %&)
+			0 ' % (2				% & %)
+			! <5MAG 7@5=F' B9@0CB 0 ' % (2			9b[']g\ DfYgybhUh] cb	& & %)
\$			0 ' % (2				% (% % ' %&)
, %			0 ' % (2				% (% % ' %&)
, &			0 ' % (2				% (% % ' %&)
,			0 ' % (2				% (% % ' %&)
, (			0 ' % (2				% (% % ' %&)
,)			fl t' 0 ' % (2				% (% % ' %&)
, *			0 ' % (2				% (% % ' %&)
, +			0 ' % (2				% (% % ' %&)
,			0 ' % (2				% (% % ' %&)
, -			0 ' % (2				% (% % ' %&)
, - \$			0 ' % (2				% (% % ' %&)
, - %			0 ' % (2				% & ' \$ % (% % ' %&)
, - &			0 ' % (2				% (% % ' %&)
, - '			0 ' % (2				% \$ % (% % ' %&)
, - (			! 5ASHM5 J=G<K5 >99H 0 ' % (2				% \$ % (% % ' %&)
, -)			0 ' % (2				% \$ % (% % ' %&)
, - *			0 ' % (2				% \$ % (% % ' %&)
, - +			0 ' % (2				% \$ % (% % ' %&)

Vertical lines and a horizontal line forming a header structure.



%+			0' % (2					%	\$% (%	%		%&' -
%,			0' % (2					%	\$% (%	%		&' " *
%-			0' % (2					%	\$% (%	%		% " *
%\$			0' % (2					%	\$% (%	%		&' "
%%			0' % (2					%	\$% (%	%		&' " *
%&			0' % (2					%	\$% (%	%		&' "
%'			0' % (2					%	\$% (%	%		' \$' (
% (			0' % (2					%	(%	%		&&' -
%)			0' % (2					%	(%	%		% " (
%*			0' % (2					%	(%	%		' " (
%+			0' % (2					%	(%	%		*&' (
%,			0' % (2					%	(%	%		&')
%-			0' % (2					&	&	%		***
%\$			0' % (2					%	(%	%		***
%%			0' % (2					%	(%	%		*&' %\$
%&			0' % (2			GB g		% & ' %	%	%		fl &&' &
%'			0' % (2					% & ' \$'	%	%		fl &') " (七
% (			0' % (2					% & ' \$'	%	%		fl &' - " %& 七
%)			0' % (2					%	\$% (%	%		' \$' &
%*			0' % (2					%	(%	%		&\$' %
%+			0' % (2					%	(%	%		&&' (
%,			fl 七					%	(%	%		% " (

%-

0 '% (2

% \$% %

&\$",

%\$

0 '% (2

% •Öñ 9!pÙ !@GDW4\$±@ÆR—ç" '>ûp CçÂ•ÖÏ =dE 'âj 'st-"\$•ã\çs
u)" +

%%

0 '% (2

% ' %& %

% *			0 ' % (2					% (%				& " (
% +			0 ' % (2					% (%				& + " (
% ,			0 ' % (2					% ' %&				' \$ " (
% -			0 ' % (2					% ' %&				& + " *
&&\$			0 ' % (2					% ' %&) " (
&&%			0 ' % (2					% ' %&				& " (
&&&			0 ' % (2					% (%				% " (
&&'			0 ' % (2					% (%				% " &
&&(			0 ' % (2					% & ' \$ " %				fi && %&.
&&)			0 ' % (2					% (%				& " (
&&*			0 ' % (2					% (%				& + " (
&&+			0 ' % (2					% (%				% " (
&&.			0 ' % (2					% (%				% " (
&&-			0 ' % (2					% (%				& " (

ÇÜZÜM
¶ i
H u öH £ H °vH

%			0 ' % (2					% &	\$" %	%)
&			0 ' % (2					%	\$" %	%	% " % %)
.			0 ' % (2					%	\$" %	%	% ")
(			0 ' % (2					%	\$" %	%	" ()
)			0 ' % (2					%	\$" %	%	" ,)
*			0 ' % (2					%	\$" &	%	% ")
+			0 ' % (2					%	\$" &	%	& " +)
,			0 ' % (2					%	\$" %	%	" +)
-			0 ' % (2					%	\$" %	%	% +)
%\$			0 ' % (2					%	\$" %	%	% " -)
%%			0 ' % (2					%	\$" (%	% ")
%&			0 ' % (2					% &	\$" %	%	& ()
								% &	\$" %	%		
								% &	\$" %	%		
								% &	\$" %	%		
								%	\$" %	%		
								%	\$" (%		
								%	\$" (%		
								%	\$" +	%		
								%	\$" (%		
								%	\$" (%		
								%	\$" +	%		
								% &	*	%		
								% &	*	%		
								% &	*	%		
								&	&	%		
								%	(%		
								% &	,	%		

% \$ & %
 % & %
 % & &
 % & % %
 % & %
 % & %
 % & &
 % & % %
 % % %
 % % %

)'			0 ' % (2					% % % % &	\$" & % (,	% % % %	***)
)(			0 ' % (2				% % % & % & % &	\$" & & ((%	% & & % %	' \$"	()
))			0 ' % (2				% % % &	\$" (,	% % %	&&" -)
)*			0 ' % (2				% % % &	\$" (,	% % %	' "	()
)+			0 ' % (2				% % % &	\$" (,	% % %	' "	()
),			0 ' % (2				% % % &	\$" (,	% % %	%(" +)
)-			0 ' % (2				% % % &	\$" (,	% % %	* &" ()
*\$			0 ' % (2				% % % &	\$" (,	% % %	%(" ()
*%			0 ' % (2				% % % &	\$" (,	% % %	&% &)
*&			0 ' % (2				% % % &	\$" ((%	% & % %	&" +)
**			0 ' % (2				% % % &	\$" (,	% % %	&+" %\$)
* (			0 ' % (2				% % % % &	\$" & ((%	% % % %	% " ()
*)			0 ' % (2				% % % % &	\$" & ((%	% % % %	' **)
**			0 ' % (2				% % % &	\$" (,	% % %)" ()
*+			0 ' % (2				% % % &	\$" & (%	% % % %	& " ()
*,			0 ' % (2				% % % &	\$" (,	% % %	% " %)

*_			0 ' % (2				%	&	%)
+\$			0 ' % (2				%	&	%)
+%			0 ' % (2				%	&	%)
+&			0 ' % (2				%&	\$%	%)
+			0 ' % (2				%	&	%)
+(			0 ' % (2				%	&	%)
+)			0 ' % (2				%	\$%	%)
+			0 ' % (2				%	\$'	%)
++			0 ' % (2				%	\$%	%)
+.			0 ' % (2				%	\$%	%)
+.			0 ' % (2				%	&	%)
.\$			0 ' % (2				%	(%)
.%			0 ' % (2				%	(%)
.&			0 ' % (2				%	(%)
.'			0 ' % (2				%	(%)
.(			0 ' % (2				%	(%)
.)			0 ' % (2				%&	\$%	%)
.*			0 ' % (2				%	\$%	%)
.'+			0 ' % (2				%	\$%	%)

%&f			0 ' % (2					%	&	%)
%&+			0 ' % (2					%	\$"	%)
%&			0 ' % (2					%	\$"	%)
%&-			0 ' % (2					%	\$"	%)
%\$			0 ' % (2					%	\$"	%)
%%			0 ' % (2					%	&	&)
%&			0 ' % (2					%	&	(%)
%'			0 ' % (2					%	&	&)
% (			0 ' % (2					%	\$"	%)
%)			0 ' % (2					%	&	(%)
%*			0 ' % (2					%	\$"	%)
%+			0 ' % (2					%	\$"	%)
%,			0 ' % (2					%	\$"	%)
%-			0 ' % (2					%	\$"	%)
%(\$			0 ' % (2					%	\$"	%)
%(%			0 ' % (2					%	\$"	%)
%(&			0 ' % (2					%	\$"	%)
%('			0 ' % (2					%	\$"	%)
%( (			0 ' % (2					%	\$"	%)
%()			0 ' % (2					%	\$"	%)

% +			0 ' % (2					% & & & & & &	& & & & & &	% & & & & &	' \$" ()
% +			0 ' % (2					% & & & & & &	& & & & & &	% & & & & &	&" ()
% ,			0 ' % (2					%	\$" &	%	&" ()
% -			0 ' % (2					%	\$" &	%	&" ")
% \$			0 ' % (2					%	\$" %	%	' \$" ()
% %			0 ' % (2					%	\$" %	%	&&" ()
% &			0 ' % (2					% &	& &	& &	&" ()
% '			0 ' % (2					% &	%&	%	' \$" ()
% (			0 ' % (2					%	\$" %	%	&" ")
%)			0 ' % (2					%	\$" %	%	&" ")
% "			0 ' % (2					%	\$" &	%	* &" ()
% +			0 ' % (2					%	\$" %	%	&" ()
% ,			0 ' % (2					%	\$" %	%	&\$" ()
% -			0 ' % (2					%	\$" %	%	&% %)
% \$			0 ' % (2					%	\$" %	%	&" ")
% %			0 ' % (2					%	\$" %	%	&" +)
% &			0 ' % (2					%	\$" %	%	&% ()
% '			0 ' % (2					%	\$" %	%	%" ()
% (			0 ' % (2					% &	(&	% &	&% ()

%)			0 ' % (2					%	(%)
%*			0 ' % (2					%	(%)
%+			0 ' % (2				<]fcg\]aU	%	&	\$"	%		fl *"%
%,			0 ' % (2				<]fcg\]aU	%	&	\$"	%		fl ' "(
%-			0 ' % (2				<]fcg\]aU	%	&	\$"	%		%&" +
%\$			0 ' % (2				>UdUbYgY' 9i dYf] YbW cZ' GcV]U 8j Y' cdaYbhl 9Vtbcanz =bZfUghfi Vhi fYz' UbX DYUW	%	&	\$"	%		8)" (
%%			0 ' % (2				>UdUbYgY' 9i dYf] YbW cZ' GcV]U 8j Y' cdaYbhl 9Vtbcanz =bZfUghfi Vhi fYz' UbX DYUW	%	&	\$"	%		fl %"%
%&			0 ' % (2				>UdUbYgY' 9i dYf] YbW cZ' GcV]U 8j Y' cdaYbhl 9Vtbcanz =bZfUghfi Vhi fYz' UbX DYUW	%	&	\$"	%		+&
%'			0 ' % (2			D\ " 8'	>UdUbYgY' 9i dYf] YbW cZ' GcV]U 8j Y' cdaYbhl 9Vtbcanz =bZfUghfi Vhi fYz' UbX DYUW GB g 6	%	&	\$"	%		8)" (
%()			0 ' % (2				>UdUbYgY' 9i dYf] YbW cZ' GcV]U 8j Y' cdaYbhl 9Vtbcanz =bZfUghfi Vhi fYz' UbX DYUW	%	&	\$"	%		8% (
%)			0 ' % (2				>UdUbYgY' 9i dYf] YbW cZ' GcV]U 8j Y' cdaYbhl 9Vtbcanz =bZfUghfi Vhi fYz' UbX DYUW	%	&	\$"	%		fl *"(
%*			0 ' % (2			D\ " 8'	>UdUbYgY' 9i dYf] YbW cZ' <i aUb 8j Y' cdaYbhl 7i `hi fYz 9Xi VWh] cbz' UbX <YU h\ 5	%	&	\$"	%		%&" (
%+			A5<5F>5B ?9G<5J]e5@@ 0 ' % (2				>UdUbYgY' 9i dYf] YbW cZ' <i aUb 8j Y' cdaYbhl 7i `hi fYz 9Xi VWh] cbz' UbX <YU h\ 5	%	&	\$"	%		8" &
%,			0 ' % (2				>UdUbYgY' 9i dYf] YbW cZ' <i aUb 8j Y' cdaYbhl 7i `hi fYz 9Xi VWh] cbz' UbX <YU h\ GB g 5	%	&	\$"	%		%" +
%-			0 ' % (2				GB g 5	%	&	\$"	%		8+" %
%\$			0 ' % (2				GB g 5	%	&	\$"	%		fl), "(
%%			0 ' % (2				GB g 5	%	&	\$"	%		' \$ (
%&			0 ' % (2				GB g 6	%	&	\$"	%		fl %"%

&\$({			0 ' % (2					% &	\$"	%			%" (
&\$)			0 ' % (2				>UdUbyGy' 9l dYf] YbWV cZ <l aUb 8Yj Y' cdaYbhl 7l ` hi fYZ 9Xi VUh] cbz ` UbX <YU h\	% &	\$" %	%			fl %" (t
&\$*			0 ' % (2				<]fcg\]aU	% &	\$"	%			fl &)" (t
&\$+			0 ' % (2				<]fcg\]aU	% &	\$"	%			& " % &
&\$,			0 ' % (2				G8 g 6	% &	\$" %	%			' \$" (t
&\$-			0 ' % (2				G8 g 6	% &	\$" %	%			& " (t
&/%			0 ' % (2					% &	\$" %	%			fl &%" (t
&/%			0 ' % (2					% &	\$"	%			fl %" (t
&/%&			0 ' % (2					%	\$" %	%			' \$" &
&/%			0 ' % (2					% &	(%			% " % \$
&/%[			0 ' % (2					% % % %	% & & &	% % % %			& " (
&/%)			0 ' % (2					% &	\$" &	%			% " +
&/%'			0 ' % (2					% &	\$" +	%			& " (
&/%+			0 ' % (2				5	% &	%	%			% "
&/%			0 ' % (2				6	% &	%	%			& & " (
&/%			0 ' % (2					% &	&	%			& - " (
&&\$			0 ' % (2					% &	&	%			& - " (
&&/%			0 ' % (2					% &	\$" +	%			' " %
&&&			0 ' % (2					% &	\$"	%			% " "
&&'			0 ' % (2					% &	\$" (%			% & " % %
&&({			0 ' % (2				G8 g 6	% &	\$" %	%			& " " % \$
&&)			0 ' % (2					% &	\$"	%			& \$ " "
&&*			0 ' % (2					% &	\$" +	%			fl & - " % &

&&+			0 ' % (2					%	\$" %	%)" +
&&			0 ' % (2					%	&	%)""
&&-			0 ' % (2					%	\$" %	%		' \$" %
& \$			0 ' % (2					%	\$" &	%		& ""
& %			0 ' % (2					% &	\$")	%		' \$" (
& &			0 ' % (2			5		% &	\$" %	%		' \$" &
& '			0 ' % (2					% &	\$" %	%		fl &\$" %&
& (			0 ' % (2					% &	\$" %	%		' \$" (
&)			0 ' % (2					% &	&	%		& " (t
& *			0 ' % (2					%	\$" %	%		&* " (
& +			0 ' % (2					%	\$" %	%		&+ " %
& ,			0 ' % (2					%	\$" %	%		' \$" (
& -			0 ' % (2					%	\$" %	%		&- " %\$
& (\$			0 ' % (2					%	\$" %	%)" (
& (%			0 ' % (2					%	\$" %	%		' \$" (
& (&			0 ' % (2					%	\$" %	%		% " (
& ('			0 ' % (2					%	\$" %	%		% " (
& (			0 ' % (2					%	\$" %	%		% " (
&)			0 ' % (2					%	\$" %	%		% " (
& *			0 ' % (2					%	\$" %	%		&\$" (
& +			0 ' % (2					%	\$" %	%		% " (
& ,			0 ' % (2					%	\$" %	%		&" (
& -			0 ' % (2					%	\$" %	%		% " (
&) \$			0 ' % (2					&	\$" %	%		&* " (

&)%			0 ' % (2					&	\$" &	%		& " (
&)&			0 ' % (2					%	&	%		&+" (
&)'			0 ' % (2					%	&	%		&+" (
&)(			0 ' % (2					%	&	%		&- " (
&))			0 ' % (2					%	&	%		&) " (
&)*			0 ' % (2		fl			%	&	%		& " (
&)+			0 ' % (2					&	&	%		&+" (
&),			0 ' % (2					%	&	%		& " (
&)-			0 ' % (2					%	&	&		&+" (
&* \$			0 ' % (2		fl			%	&	%		& " (
&* %			0 ' % (2		fl			%	&	%		99 " (
&* &			0 ' % (2		fl			%	&	%		& " (
&*'			0 ' % (2					%	&	%		&+" (
&*(			0 ' % (2		fl			%	&	%		&- " (
&*)			0F=7 > ; F5BH 0 ' % (2		D\8'			%	\$" %	%		& " (
&*+			0 ' % (2					%	\$" &	%		&+" (
&*+			0 ' % (2					%	&	%		&\$ " (
&*,			0 ' % (2		fl			%	&	%		& " (
&*-			0 ' % (2					%	\$" %	%		&+" (
&+\$			0 ' % (2					%	\$" %	%		& " (
&+%			0 ' % (2					%	\$" %	%		&+" (
&+&			0 ' % (2					%	\$" %	%		&) " (
&+'			0 ' % (2					%	\$" %	%	fl	&+" *
&+(			0 ' % (2					%	\$" %	%		&+" (

&^			fl fl 0 ' % (2					%	&	%		&" (
&+			0 ' % (2					%	&	%		&+" (
&_			0 ' % (2					%	\$"	%	>=75	&" +	
&-			0 ' % (2					%	\$"&	%		&" (
'\$\$			0 ' % (2					%	\$"	%		fl &+" , t	
'\$%			0 ' % (2					%	\$"	%		&" (
'\$&			0 ' % (2		fl			%	\$"	%)",	
'\$			0 ' % (2		fl			%	\$"	%		%" (
'\$(			0 ' % (2		fl			%	\$"	%		%" (
'\$)			0 ' % (2					%	%	%		&" %	
'\$"			0 ' % (2					%	&	%		fl &+" - t	
'\$+			! ! @99 85J=8 7<F=HCD<9 0 ' % (2		A" 5"		9b["] g\ 7caai b] WUh] cb	%	&	%		&&" -	
'\$			0 ' % (2					%	%	%		&&" (
'\$-			0 ' % (2					%	%	%		&+" (
'%\$			0 ' % (2					%	&	%		&" (
'%%			0 ' % (2				5	%	&	%	(&&" (
'%&			0 ' % (2				-LhLbYgY 9 dYf] YbW' cZ GcWU' 8Y] Y cdaYbH 9Mbcantz -bZfUghf i Vm fYz UeX D'UW	%	&	\$"	%	>=75 fl ' \$" (t	
'%'			0 ' % (2		AlghYf g cZ -bhYfbUh] c bU' 5ZZU] fg		Gg g	5	%	&	\$"	%	fl &+" %&
'%{			0 ' % (2				Gg g	6	%	&	\$"	%	&" (t

'%			0 ' % (2					% &	\$" %	%	' \$ (
'%"			0 ' % (2					%	\$" &	%	&" (
'%+			0 ' % (2					%	\$" %	%	AC5	
											&" *	




% & (%

% ' * %

+			0 ' % (2				%	\$" %	%			
+(			0 ' % (2				%	\$" &	%			
+))			0 ' % (2				%	\$" %	%			
+*			0 ' % (2				%	\$" %	%			
++			0 ' % (2				%	\$" %	%			
+,			0 ' % (2				%	\$" %	%			
+.			0 ' % (2				%	\$" %	%			
.\$			0 ' % (2				%	\$" %	%			
,%			0 ' % (2				%	\$" %	%			
,&			0 ' % (2				%	\$" %	%			
,'			0 ' % (2				%	\$" %	%			
,.(			0 ' % (2				%	\$" %	%			
,.)			0 ' % (2				%	\$" %	%			
,*			0 ' % (2				%	\$" %	%			
,+			0 ' % (2				%	\$" %	%			
,,			0 ' % (2				%	\$" %	%			
,-			0 ' % (2				%	\$" %	%			
-\$			0 ' % (2				%	\$" %	%			
-%			0 ' % (2				%	\$" %	%			
-\$			0 ' % (2				%	\$" %	%			

%9			5A5HMS J-G-K5 >99H 0 % (2					%	\$%	%		%")
%8			0 % (2					%	\$%	%		&S"
%4			0 % (2					%	\$%	%		99" %
%			0 % (2					%	\$%	%		&" (
%4			0 % (2					%	\$%	%		%" (
%25			0 % (2					%	\$%	%		&" (
%20			0 % (2					%	\$%	%		8)" +
%8&			0 % (2					%	\$%	%		&" "
%2			0 % (2					%	\$%	%		&" (
%4(			0 % (2					%	\$&	%		886)
%8)			0 % (2					%	\$&	%		&" ,
%2"			0 % (2					%	\$%	%		&" %8
%8+			0 % (2					%	&	%		8)" "
%4			0 % (2					% & "	\$%	%		fl &S" %4
%2-			0 % (2					% & "	\$%	%		' \$" (
% \$			0 % (2					%	\$%	%		&" (
% %			0 % (2					%	\$%	%		&+" %
% &			0 % (2					%	\$%	%		' \$" (
% '			0 % (2					%	\$%	%		&" %8
% (			0 % (2					%	&	%		8)" (
%)			0 % (2					%	\$%	&		&8" %

%*			0' % (2					%	\$%	&		%"
%+			0' % (2					%	\$%	&		&"(
%,			0' % (2					%	\$%	&		%"-
%-			0' % (2					%	\$%	&		&"(
%(\$			0' % (2					%	\$%	&		&"(
%%			0' % (2					%	\$%	&		'\$(
%&			0' % (2					% &	(%		&"(
%'			0' % (2					%	\$%	%		&"(
%( (			5=85 A5AA58CJ5 0' % (2				:' cVU '-yU h\ 7U' Yb|Yg |bX' G: i h| ctg	%	&	%		'\$(
%()			0' % (2					%	\$%	&		fl &" , t
%"			0' % (2					%	\$%	&		&"(
%+			0' % (2					%	\$%	&		%)",
%,			0' % (2					%	\$%	&		%"(
%-			0' % (2					%	\$%	&		%"(

		<div style="text-align: right; margin-bottom: 100px;"> <p>— —</p> <p>— —</p> </div> <div style="text-align: right; margin-bottom: 100px;"> <p>— —</p> <p>— —</p> </div> <div style="text-align: right; margin-bottom: 100px;"> <p>— —</p> <p>— —</p> </div> <div style="text-align: right; margin-bottom: 100px;"> <p>— —</p> <p>— —</p> </div> <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> <div style="text-align: right;"> <p>— —</p> <p>— —</p> <p>— —</p> <p>— —</p> <p>— —</p> <p>— —</p> <p>— —</p> <p>— —</p> <p>— —</p> </div>
--	---	--

