

6\PELRVLV ,QVWLWXWH RI 7HFKQRORJ\ 1DJ
 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
 3URJUDPPH 6WUXFWXUH

	2%-(&7,9(	% 7HFK LV D IXOO WLPH IRXU \HDU JUDGXDWLRQ SURJUDPPH ZKLFK DLPV V\OODDEXV FRQWDLQV FRXUVHV RQ EDVLF VFLHQFHV WHFKQLFDO DUWV K) EHHQ HYROYHG ZLWK DQ DLP WR SURGXFH SURIHVVLRQDOV ZKR KDYH NQR LQ D FURVV IXQFWLRQDO WHDP DQG KDYH KXPDQ YDOXH %HLQJ D SURIHVVLRQDO SURJUDPPH LW HQVXUHV D KHDOWK\ EDODQFH EH ZRUOG 7KH HPSKDVLV LV WR GHYHORS DOO URXQG SHUVRQDOLW\ WKDW ZRXOG H EHRPH UHVSQRVLEOH FLWLJHQV RI WKH VRFLHW\			
	'85\$7,21 ,1 0217+6	)XOO 7LPH			
	,17\$. (
	5(6(59\$7,21	, :LWKLQ WKH VDQFV	D 6& ,Q 3HUFHQW	E 67 ,Q 3HUFHQW	F 'LIIHUHQW ,Q 3HUFHQW G 'RPLFLOH 1DJSXU ,Q 3HUFHQW ,QFOXGH L 6FKHGXC SHUFHQWD LL 6FKHGXC SHUFHQWD LLL 'LIIHU SHUFHQWD
	,, 2YHU DQG DERYH WK	D .DVKPLUL 0LJUDQWV ,Q 6HDWV	E ,QWHUQDWLRQDO 6WUX ,Q 3HUFHQWDJH		
	(/ , * , % , / , 7 <	3DVVHG H[DPLQDWLRQ ZLWK 3K\VLV DQG 0DWKHPDWLFV DV FRPSXOVR			



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 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
 3URJUDPPH 6WUXFWXUH

		<p>6FLHQFH (OHFWURQLFV ,QIRUPDWLRQ 7HFKQRORJ\ %LRORJ\ ,QIRUPDWLFV 9RFDWLRQDO VXEMHFW \$JULFXOWXUH (QJLQHHULQJ *UDSKLFV %XVLQHVV FDVH RI FDQGLGDWHV EHORQJLQJ WR UHVHUYHG FDWHJRU\ LQ WKH DERY 25 3DVVHG ' 9RF 6WUHDP LQ WKH VDPH RU DOOLHG VHFWRU 7KH 8QLYHUVLW (QJLQHHULQJ GUDZLQJ HWF IRU WKH VWXGHQWV FRPLQJ IURP GLYHUVH EDFNJURXQG WR SUHSDUH /HYHO SOD\LQJ ILHOG DQG GHVLUHG OHDUQLQJ RXWFRPHV R % 7HFK /DWHUDO (QWU\ 3DVVHG 0LQLPXP 7KUHH \HDUV 7ZR \HDU /DWHUDO (QWU\ 'LSORPD H[DPL EHORQJLQJ WR UHVHUYHG FDWHJRU\ LQ \$1< EUDQFK RI (QJLQHHULQJ DQG 25 3DVVHG % 6F 'HJUHH IURP D UHFRJQLJHG 8QLYHUVLW\ DV GHILQH E\ 8*& 6FKHGXOHG &DVWH 6FKHGXOHG 7ULEHV DQG SDVVHG H[DPLQDWLRQ 25 3DVVHG % 9RF \HDU ' 9RF 6WUHDP LQ WKH VDPH DOOLHG VHFWRU 7KH 3K\VLV (QJLQHHULQJ GUDZLQJ HWF IRU WKH VWXGHQWV FRPLQJ IURP SURJUDPPH</p>
6(/(&7,21 352&('85(<p>0HULW OLVW E\ YDOLG VFRUH RI 6\PELRVLV (QWUDQFH 7HVW 6,7(((RU -R (QJLQHHULQJ (QWUDQFH ([DPLQDWLRQ</p>
0('80 2) ,16758&7,21		<p>(QJOLVK</p>
352*5\$00(3\$77(51		<p>6HPHVWHU</p>



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	& 2856 (63 (&, \$/, 6\$7, 21	Annexure A: Bachelor of Technology (Computer Science and Engineering) Students may pursue optional 'Honours' specialisation in one of the specialisation areas by completing an additional 20 credits in Semesters 4, 5, 6 and 7 as specified in Annexure B for Honours. Annexure B: Optional 'Honours' specialisation area. 1. Artificial Intelligence and Machine learning 2. Artificial Intelligence of Things 3. Cloud Computing 4. Cyber Security 5. Data Science and Analytics			
) ((		\$FDGHP LF)HH	, QVWLWXWH 'H		7RWDO
	, QGLDQ 6WX	2WKHU WKDQ 1DJ			
		1DJSXU 'RPLF			
	, QWHUQDWLRQ	15, 3, 2 2&, &DW \$PRXQW LQ 8			
		)RUHLJQ 1DWLRQ \$PRXQW LQ 8			
1RWH)RU DGGLWLRQDO RSWLRQDO 6SHFLDOLVDWLRQ +RQRXUV DQ DGGLWLRQDO IHHV RI 5V					
\$66(660(17		7KH WKHRU\ FRXUVHV ZLOO KDYH &RQLQXR XV \$VVHV VPHQW DQG SURJUDPPH FUHGLWV PD\ KDYH	&RQLQXR XV \$VVHV VPHQW DQG 7H 7HUP (QG >8QLYHUVLW\@ H[DPLQDW &RQLQXR XV \$VVHV VPHQW		



This Programme Structure is aligned with the norms laid down by the University and is approved by the Academic Council and Executive Council. Hereafter changes (if any) which conform to the policy on "Curriculum Development and Review" would be permissible, subject to revision of the Programme Structure, following the specified processes.

Director - Academics

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&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW
					/	7	/D E	3UDFW	&\$ (6(	&\$ (6(	&\$ (6(
6HPHVWHU													
*URXS \$													
*HQHULF &RUH &RXUVHV													
7+0		\$SWLWXGH DQG 5HDVRLQ	%6										
7(		0DWKHPDWLFV ,	%6									
7((		3K\VLV IRU 4XDQXP &RP	%6									
7((		7LQNHU /DE IRU &RPSXWHU	(6									
7((		\$FDGHPLF :ULWLQJ 6NLOOV	3&									
7((		3URJUDPPLQJ LQ &	3&									
70		,QWURGXFWRQ WR (QYLUF	+60&										
7+0		7HFKQLFDO DQG 3URIHVVL	+60&										
7+0		,QGLDQ .QRZOHGJH 6\VWHF	,.6										
7RWDO 5HTXLUH													
*URXS %													
*HQHULF &RUH &RXUVHV													
7+0		\$SWLWXGH DQG 5HDVRLQ	%6										
7(		0DWKHPDWLFV ,	%6									
7((7LQNHU /DE IRU &RPSXWHU	(6										



6\PELRVLV ,QVWLWXWH RI 7HFKQRORJ\ 1DJ
 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
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&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 ODUNV				7RW &UHG	7RW	
					3UDFW		7KHRU\		&\$	(6(&\$			(6(
					/	7	/D E							
7((		1DQRWHFKQRORJ\ &RQFHS (PHUJLQJ \$SSOLFDWLRQV	(6										
7((		\$FDGHPLF :ULWLQJ 6NLOOV	3&										
7((		3URJUDPPLQJ LQ &	3&										
70		,QWURGXFWRQ WR (QYLUF	+60&											
7+0		7HFKQLFDO DQG 3URIHVVL 6NLOOV	+60&											
7+0		,QGLDQ .QRZOHGJH 6\VWHF	,.6											
7RWDO 5HTXLUH														
6HPHVWHU														
*URXS \$														
*HQHULF &RUH &RXUVHV														
7+0		\$SWLWXGH DQG 5HDVRLQ	%6											
7(		6WDWLWVLFV DQG 3UREDEI	%6										
7((		'LJLWDO (OHFWURQLFV DQ	(6										
7((		1DQRWHFKQRORJ\ &RQFHS (PHUJLQJ \$SSOLFDWLRQV	(6										
7((		'DWD 6WUXFWXUHV	3&										
7((		3URJUDPPLQJ DQG 3UREOH	3&										
7((		'HVLJQ 7KLQNLQJ DQG &UH	+60&										



6\PELRVLV ,QVWLWXWH RI 7HFKQRORJ\ 1DJ
 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
 3URJUDPPH 6WUXFWXUH

\$QQH[XUH \$

&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$	(6(&\$
7+		+HDOWK DQG :HOOQHVV 0R												
7RWDO 5HTXLUH														
*URXS % *HQHULF &RUH &RXUVHV														
7+0		\$SWLWXGH DQG 5HDVRQLQ	%6											
7(		6WDWLWVWLFV DQG 3UREDE	%6											
7((		3K\VLV IRU 4XDQXP &RP	%6											
7((		'LJLWDO (OHFWURQLFV DQ	(6											
7((		'DWD 6WUXFWXUHV	3&											
7((		3URJUDPPLQJ DQG 3UREOH	3&											
7((		'HVLJQ 7KLQNLQJ DQG &UH	+60&											
7+		+HDOWK DQG :HOOQHVV 0R												
7RWDO 5HTXLUH														
6HPVWHU *HQHULF &RUH &RXUVHV														
3		\$SWLWXGH DQG 5HDVRQLQ	%6											
3		'LVFUHHW 0DWKHPDWLFV D	%6											
3		0LFURFRQWUROOHUV DQG	(6											
7		&RPSXWHU 2UJDQL]DWLRQ	3&											



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&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$	(6(&\$
3		'HVLJQ DQG \$QDO\VLV RI \$	3&											
)		)OH[L &UHGLW &RXUVH	3&											
7((		,QWURGXFWRQ WR &\EHU	3&											
7		(QWUHSUHQHUVKLS 9HQW	+60&											
7+		+HDOWK DQG :HOOQHVV 0R												
7RWDO														
0XOWL GLVFLSOLQDU\ 2SHQ (OHFWLYH &RXUVH &KRRVH DQ\ RQH &RXUVH														
7		)RXQGDWLRQ RI (WKLFV	023(	\$SSOLHG 6FLHQFH										
7		,QWURGXFWRQ WR ,QGLD	023(	\$SSOLHG 6FLHQFH										
7RWDO 5HTXLUH														
6HPVWHU *HQHULF &RUH &RXUVH														
7((		'DWD &RPSUHVVLRQ	(6											
3		'DWDEDVH 0DQDJPHQW 6\	3&											
))OH[L &UHGLW &RXUVH	3&											
3		2SHUDWLQJ 6\ VWHPV	3&											
7(7KHUR\ RI &RPSXWDWLRQ	3&											
7(3URMHFW %DVHG /HQUQLQ	3,6											



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 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
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&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHP +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$	(6(&\$
60&		+HDOWK DQG :HOOQHVV											0DQG RU\ 1RQ HGL &RXU	
3		&DUHHU (VVHQWLDV ,,,											0DQG RU\ 1RQ HGL &RXU	
7RWDO														
0XOWL GLVFLSOLQDU\ 2SHQ (OHFWLYH &RXUVH &KRRVH DQ\ RQH FRXUVH														
7		%DVLF)UHQFK ,	023(	\$SSOLHG 6FLHQFH										
7		%DVLF *HUPDQ ,	023(	\$SSOLHG 6FLHQFH										
7		%DVLF 6SDQLVK ,	023(	\$SSOLHG 6FLHQFH										
7RWDO 5HTXLUH														
6HPHVWHU														
*HQHULF &RUH &RXUVHV														
3		&RPSLOHU &RQVWUXFWLRQ	3&											
))OH[L &UHGLW &RXUVH	3&											



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 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
 3URJUDPPH 6WUXFWXUH

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&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 ODUNV				7RW &UHG	7RW	
					3UDFW		7KHUR\		&\$	(6(&\$			(6(
					/	7	/D E							
3		,QWURGXFWRQ WR \$QGUR	3&											
3		6HUULFH /HQUQLQJ	+60&											
7		,QWHUQVKLS	3,6											
7(		3URMHFW %DVHG /HQUQLQJ	3,6										
3		&DUHHU (VVHQWLDV ,9										0DQG RU\ 1RQ HGL &RXU		
3		&RPSXWHU 1HWZRUNV	3&											
7RWDO														
0XOWL GLVFLSOLQDU\ 2SHQ (OHFWLYH &RXUVH &KRRV DQ\ RQH &RXUVH														
7((		(QJLQHHULQJ 6LPXODWLRQ	023(	&RPSXWHU 6FLHQF (QJLQHHULQJ									
7(		,QG XVWULDO 5HYROXWLRQ ,QG XVU\	023(	&RPSXWHU 6FLHQF (QJLQHHULQJ									
7(,QWURGXFWRQ WR ,PDJH	023(&RPSXWHU 6FLHQF (QJLQHHULQJ										
7		6L[6LJPD	023(&RPSXWHU 6FLHQF (QJLQHHULQJ										



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 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
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&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 ODUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$	(6(&\$
7(		8VHU ,QWHUIDFH DQG ([SH	023(	&RPSXWHU 6FLHQF (QJLQHHULQJ										
7RWDO 5HTXLUH														
6HPHVWHU														
*HQHULF &RUH &RXUVHV														
7(		'HY2SV	3&											
)		)OH[L &UHGLW &RXUVH	3&											
7(		2SWLPL]DWLRQ 7HFKQLTXH	3&											
7		3URMHFW %DVHG /HQUQLQJ	3,6											
3		&DUHHU (VVHQWLDQV 9	0&										0DQG RU\ 1RQ HGL &RXU	
7RWDO														
*HQHULF (OHFWLYH &RXUVHV *URXS , &KRRVH DQ\ RQH &RXUVH														
7(1DWXUDO /DQJXDJH 3URFH	3(
7((3URJUDPPLQJ ZLWK 6(16(Q	3(
7(&ORXG &RPSXWLQJ 7RROV	3(



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&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	&\$ (6(&\$ (6(&\$ (6(&\$ (6(
7(		,QIRUPDWLRQ DQG 1HWZRU	3(
7(		'LJLWDO ,PDJH 3URFHVVLUQ	3(
7RWDO 5HTXLUH														
*HQHULF (OHFWLYH &RXUVHV *URXS ,, &KRRVH DQ\ RQH &RXUVH														
7(		&RPSXWHU 9LVLRQ	3(
7((		\$UWLILFLDO ,QWHOOLJHQF	3(
7((		&\EHU 6HFXULW\ LQ &ORXG	3(
7((		0RELOH DQG :LUHOHVV 6HF	3(
7		3UHGLFWLYH \$QDO\WLFV	3(
7RWDO 5HTXLUH														
0XOWL GLVFLSOLQDU\ 2SHQ (OHFWLYH &RXUVHV &KRRVH DQ\ RQH FRXUVH														
7((		0DWKHPDWLFDO 7HFKQLTX /HDUQLQJ	023(	\$UWLILFLDO ,QWH 0DFKLQH /HDUQLQJ									
7((%DVLV RI ,QWHUQHW RI 7	023(\$UWLILFLDO ,QWH 0DFKLQH /HDUQLQJ										
7((*ULG &RPSXWLQJ	023(&RPSXWHU 6FLHQF (QJLQHHULQJ DQG 7HFKQRORJ\										



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&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HNN			([DPLQDWLRQ 6 ODUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$	(6(&\$
7((		'LVWULEXWHG &RPSXWLQJ	023(	&RPSXWHU 6FLHQF (QJLQHHULQJ										
7((		1HXUDO 1HWZRUNV IRU 'DW	023(	&RPSXWHU 6FLHQF (QJLQHHULQJ DQG 7HFKQRORJ\										
7RWDO 5HTXLUH														
6HPHVWHU														
7UDFN														
60&		<i>Vasudhaiva Kutumbakam *</i>											0DQG RU\ 1RQ HGL &RXU	
7		% 7HFK 3URMHFW	3,6											
7RWDO 5HTXLUH														
*HQHULF (OHFWLYH &RXUVHV *URXS , &KRRVH DQ\ 2QH &RXUVH														
7((5HFRPPHQGHU 6\WHPV	3(
7((,PDJH 3URFHVVVLQJ ZLWK ,F	3(
7((%XVLQHVV \$QDO\WLFV ZLW	3(



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&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 ODUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$	(6(&\$
7((		1HWZRUNLQJ DQG &RQWHQ 6HUULFHV	3(
7((		:HE DQG 7H[W \$QDO\VLV	3(
7RWDO 5HTXLUH														
*HQHULF (OHFWLYH &RXUVHV *URXS ,, &KRRVH DQ\ RQH &RXUVH														
7		%XVLQHVV ,QWHOOLJHQFH	3(
7((		)RJ &RPSXWLQJ DQG ,R7	3(
7((		'LVDVWHU 5HFRYHU\ DQG % &ORXG	3(
7((		,QIRUPDWLRQ 6HFXULW\ DC	3(
7		6RFLDO 0HGLD \$QDO\WLFV	3(
7RWDO 5HTXLUH														
*HQHULF (OHFWLYH &RXUVHV *URXS ,,, &KRRVH DQ\ RQH &RXUVH														
7((%XVLQHVV IRU 'DWD 'ULYH	3(
7(('URQHV LQ ,R7	3(
7((&RQWDLQHU DQG 6HUYHUO	3(
7((([SORLW :ULWLQJ	3(
7		+HDOWKFDUH DQDO\WLFV	3(



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&DWDQ &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 ODUNV				7RW &UHG	7RW
					/	7	/D E	3UDFW	&\$ (6(&\$ (6(&\$ (6(
7RWDO 5HTXLUH													
7UDFN													
)		)OH[L &UHGLW &RXUVH	3(
7		,QWHUQVKLS ,	3,6										
7		6HPLQDU	3,6										
7		3URMHFW	3,6										
7RWDO 5HTXLUH													
6HPHVWHU													
*HGHULF &RUH &RXUVHV													
7		,QWHUQVKLS	3,6										
7RWDO													
*HGHULF (OHFWLYH &RXUVHV &KRRVH DQ\ 2QH &RXUVH													
7		+XPDQ &RPSXWHU ,QWHUDF	3(
7((		,QG XVWULDO ,R7	3(
7((6HQVRU &ORXG IRU ,QWHU	3(
7((ODOZDUH \$QDO\VLV	3(
7((3HQHWUDWLRQ 7HVWLQJ	3(
7RWDO 5HTXLUH													



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\$EEUHYLDWLRQV 1DWX	'HVFULSWLRQ
%6	%DVLF 6FLHQFHV
(6	(QJLQHHULQJ 6FLHQFHV
3&	3URIHVVLRQDO &RUH
3(	3URIHVVLRQDO (OHFWLYH
+60&	+XPDQLWLHV DQG 6RFLDO 6FLHQFHV LQ
023(	0XOWLGLVFLSOLQDU\ 2SHQ (OHFWLYHV
3,6	3URMHFW ,QWHUQVKLS 6HPLQDU
,.6	,QGLDQ .QRZOHGJH 6\ VWHP
/	/HFWXUH
0&	0DQGDWRU\ &RXUVH
7	7XWRULD
&\$	&RQLQXRXV \$VVHVPHQW
(6(	(QG 6HPHVWHU ([DPLQDWLRQ
/\$%	/DERUDWRU\

Track 1 (T1): For Regular Students

Track 2 (T2): For Students opting for Internship/ Entrepreneurship

Definition:

Honours: Students have the option to pursue an "Honours" degree by completing an additional 20 credits within their major discipline, focusing on more advanced, specialised, emerging, or multidisciplinary courses beyond the standard requirements of the B.Tech degree.

Minors: Students have the option to pursue a "Minor" by completing 18 credits in a discipline/ specialisation other than their major discipline beyond the standard requirements of the B.Tech. Degree.



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 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
 3URJUDPPH 6WUXFWXUH
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6HPHVWHU	&RQLQXR XV \$VV	7HUP (QG ([DPLQ	7RWDO &UHGL	7RWDO 0DUN)
7UDFN				
6HPHVWHU				
6HPHVWHU				
6HPHVWHU				
6HPHVWHU				
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6HPHVWHU				
6HPHVWHU				
7RWDO				
7UDFN				
6HPHVWHU				
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6HPHVWHU				
7RWDO				



6\PELRVLV ,QVWLWXWH RI 7HFKQRORJ\ 1DJ
 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
 3URJUDPPH 6WUXFWXUH

\$QQH[XUH %
 2SWLRQDO +RQRXUV 6SHFLDOLVDWLRQ

&DWDQ &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWL 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$ (6(	&\$ (6(
6HPHVWHU														
\$UWLILFLDO ,QWHOOLJHQFH DQG 0DFKLQH /HQUQLQJ 6SHFLDOLVDWLRQ &RUH &RXUVHV														
7(		\$UWLILFLDO ,QWHOOLJHQF	3&											
3		0DFKLQH /HQUQLQJ	3&											
7RWDO														
6HPHVWHU														
&\EHU 6HFXULW\ 6SHFLDOLVDWLRQ &RUH &RXUVHV														
3		&\EHU 6HFXULW\ 'LJLWDO :DWHU 0DUNLQJ D	3&											
3			3&											
7RWDO														
6HPHVWHU														
\$UWLILFLDO ,QWHOOLJHQFH RI 7KLQJV 6SHFLDOLVDWLRQ &RUH &RXUVHV														
7		,QWURGXFWRQ WR ,QWHU	3&											
3		0DFKLQH /HQUQLQJ	3&											
7RWDO														



6\PELRVLV ,QVWLWXWH RI 7HFKQRORJ\ 1DJ
 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
 3URJUDPPH 6WUXFWXUH

\$QQH[XUH %
 2SWLRQDO +RQRXUV 6SHFLDOLVDWLRQ

&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLRQ 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$ (6(	&\$ (6(
6HPHVWHU														
'DWD 6FLHQFH DQG \$QDO\WLFV 6SHFLDOLVDWLRQ &RUH &RXUVHV														
7		,QWURGXFWRQ WR GDWD	3&											
3)RXQGDWLRQ RI 'DWD (QJL	3&											
7RWDO														
6HPHVWHU														
&ORXG &RPSXWLQJ 6SHFLDOLVDWLRQ &RUH &RXUVHV														
7		,QWURGXFWRQ WR &ORXG	3&											
3		,QWURGXFWRQ WR &ORXG	3&											
7RWDO														
6HPHVWHU														
\$UWLILFLDO ,QWHOOLJHQFH DQG 0DFKLQH /H DUQLQJ 6SHFLDOLVDWLRQ &RUH &RXUVHV														
7(1HXUDO 1HWZRUV	3&											
7((6RIW &RPSXWLQJ	3&											
7RWDO														



6\PELRVLV ,QVWLWXWH RI 7HFKQRORJ\ 1DJ
 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
 3URJUDPPH 6WUXFWXUH

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 2SWLRQDO +RQRXUV 6SHFLDOLVDWLRQ

&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLF 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$	(6(&\$
6HPHVWHU														
&\EHU 6HFXULW\ 6SHFLDOLVDWLRQ &RUH &RXUVHV														
7((		(WKLFDQ +DFNLQJ	3&											
7((		6HFXULW\ DQG 5LVN 0DQDJ	3&											
7RWDO														
6HPHVWHU														
\$UWLILFLDO ,QWHOOLJHQFH RI 7KLQJV 6SHFLDOLVDWLRQ &RUH &RXUVHV														
7(		1HXUDO 1HWZRUV	3&											
7((		,R7 3URJUDPPLQJ	3&											
7RWDO														
6HPHVWHU														
'DWD 6FLHQFH DQG \$QDO\WLFV 6SHFLDOLVDWLRQ &RUH &RXUVHV														
7((		'DWD :DUHKRXVH	3&											
7		'DWD 0LQLQJ	3&											
7RWDO														



6\PELRVLV ,QVWLWXWH RI 7HFKQRORJ\ 1DJ
 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
 3URJUDPPH 6WUXFWXUH

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 2SWLRQDO +RQRXUV 6SHFLDOLVDWLRQ

&DWDQ &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLPH 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW
					/	7	/D E	3UDFW	&\$ (6(	&\$ (6(	&\$ (6(
6HPHVWHU													
&ORXG &RPSXWLQJ 6SHFLDOLVDWLRQ &RUH &RXUVHV													
7((		9LUWXDOLJDWLRQ 7HFKQLT 3ULQFLSOHV DQG \$SSOLFD	3&										
7((		)XQGDPHQWDOV RI :HE 6HU DQG 3UDFWLFDO \$SSOLFDW	3&										
7RWDO													
6HPHVWHU													
\$UWLILFLDO ,QWHOOLJHQFH DQG 0DFKLQH /HQUQLQJ 6SHFLDOLVDWLRQ &RUH &RXUVHV													
3		3DWWHUQ 5HFRJQLWLRQ	3&										
7RWDO													
6HPHVWHU													
&\EHU 6HFXULW\ 6SHFLDOLVDWLRQ &RUH &RXUVHV													
3		&U\SWRJUDSK\ DQG 1HWZR	3&										
7RWDO													
6HPHVWHU													



6\PELRVLV ,QVWLWXWH RI 7HFKQRORJ\ 1DJ
 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
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 2SWLRQDO +RQRXUV 6SHFLDOLVDWLRQ

&DWDQ &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLRQ 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$ (6(	&\$ (6(
\$UWLILFLDO ,QWHOOLJHQFH RI 7KLQJV 6SHFLDOLVDWLRQ &RUH &RXUVHV														
3		,R7 6HQVRUV \$FWXDWRUV	3&											
7RWDO														
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'DWD 6FLHQFH DQG \$QDO\WLFV 6SHFLDOLVDWLRQ &RUH &RXUVHV														
3		'DWD \$QDO\VLV DQG 9LVXD	3&											
7RWDO														
6HPHVWHU														
&ORXG &RPSXWLQJ 6SHFLDOLVDWLRQ &RUH &RXUVHV														
3		&ORXG 6HFXULW\	3&											
7RWDO														
6HPHVWHU														
\$UWLILFLDO ,QWHOOLJHQFH DQG 0DFKLQH /HQUQLQJ 6SHFLDOLVDWLRQ &RUH &RXUVHV														
3		'HHS /HQUQLQJ DQG ,WV \$\$	3&											
7RWDO														



6\PELRVLV ,QVWLWXWH RI 7HFKQRORJ\ 1DJ
 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
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 2SWLRQDO +RQRXUV 6SHFLDOLVDWLRQ

&DWD &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLRQ 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW	
					/	7	/D E	3UDFW	7KHUR\	&\$ (6(&\$ (6(
6HPHVWHU														
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3		,QWUXVLRQ 'HWHFWRQ DQ	3&											
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\$UWLILFLDO ,QWHOOLJHQFH RI 7KLQJV 6SHFLDOLVDWLRQ &RUH &RXUVHV														
3		:LUHOHV 7HFKQRORJLHV I	3&											
7RWDO														
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'DWD 6FLHQFH DQG \$QDO\WLFV 6SHFLDOLVDWLRQ &RUH &RXUVHV														
3		%LJ 'DWD \$QDO\WLFV	3&											
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 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
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 2SWLRQDO +RQRXUV 6SHFLDOLVDWLRQ

&DWDQ &RXUV &RGH	&RXUV &RGH	&RXUVH 7LWOH	1DW	6SHFLDOLVDWLRQ 'HSDUWPHQW	7HDFKL 6FKHPH +RXUV :HHN			([DPLQDWLRQ 6 0DUNV				7RW &UHG	7RW
					3UDFW		7KHUR\						
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7RWDO													



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 %DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
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6HPHVWHU	&RQLQXR XV \$VV	7HUP (QG ([DPLQ	7RWDO &UHGL	7RWDO 0DUN)
\$UWLILFLDO ,QWHOOLJHQFH DQG 0DFKLQH /HDUQLQJ				
6HPHVWHU				
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7RWDO				
&\EHU 6HFXULW\				
6HPHVWHU				
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7RWDO				
\$UWLILFLDO ,QWHOOLJHQFH RI 7KLQJV				
6HPHVWHU				
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'DWD 6FLHQFH DQG \$QDO\WLFV				
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%DFKHORU RI 7HFKQRORJ\ &RPSXWHU 6FLHQFH I
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2SWLRQDO +RQRXUV 6SHFLDOLVDWLRQ

7RWDO				
&ORXG &RPSXWLQJ				
6HPHVWHU				
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7RWDO				

