		Jaypee University of IT Waknagha	t								
	Curricula for 2	year MTech Computer Science Engineerin		nforn	natio	n Se	curity	y)			
		atch 2018-20 onwards Mtech CSE(IS): I Sen						,			
	C/ Contact hours										
SN	Sub Code	Subject	E					Cr			
				L	Т	Р	Hr				
1	10M11Cl111	Advanced Data Structures	С	3	0	0	3	3			
2	10M11Cl112	Advanced Computer Networks	С	3	0	0	3	3			
3	18M11CI113	Advanced Database Systems Security	С	3	0	0	3	3			
4	18M11CI114	Cryptography and Information System Security	С	3	0	0	3	3			
5	cs	DE-I	Е	3	0	0	3	3			
6	cs	DE-II	Е	3	0	0	3	3			
7	cs	DE-III	Е	3	0	0	3	3			
8	18M17CI171	Software Systems Security Lab - I	С	0	0	4	4	2			
		TOTAL					25	23			
	l .										
		Jaypee University of IT Waknagha	t								
	Curricula for 2	year MTech Computer Science Engineerin	g (Ir	nforn	natio	n Se	curity	y)			
		tch 2018-20 onwards Mtech CSE(IS): II Ser						-			
SN	Sub Code	Sub Code Subject	C/	Co	ontac	t ho	urs	rs Cr			
SIN	Sub Code		E	L	Т	Р	Hr	Ur			
1	10M11CI211	Advanced Algorithms	С	3	0	0	3	3			
2	10M11CI212	Advanced Operating Systems	С	3	0	0	3	3			
3	10M11CI213	Advanced Software Engineering	С	3	0	0	3	3			
4	18M11CI214	Digital Forensics	С	3	0	0	3	3			
5	cs	DE-IV	С	3	0	0	3	3			
6	cs	DE-V		3	0	0	3	3			
7	cs	DE-VI		3	0	0	3	3			
8	18M17CI271	Software Systems Security Lab - II	С	4	0	2	6	2			
		TOTAL					27	23			
			•								
	•	Jaypee University of IT Waknagha	t			•	•				
	Curricula for 2	year MTech Computer Science Engineerin	g (Ir	nforn	natio	n Se	curity	y)			
		tch 2018-20 onwards Mtech CSE(IS): III Se									
CNI	Sub Code	Subject	C/	Contact hours				Cr			
SN		de Subject	E	L	Т	Р	Hr	``			
1	40844001000	Seminar	С	0	0	4	4	2			
	1781417961393	ı Sellillai		U	l U		- 4				
2	18M19Cl393 18M19Cl391	Project, Part -I	С	0	0	24	24	12			

		Jaypee University of IT Waknagha	ŀ						
(Curricula for 2 year MTech Computer Science Engineering (Information Security)								
	Rat	ch 2018-20 onwards Mtech CSE(IS) : IV Se	mes	ter (M4)	00	ourit;	"	
C/ Contact Lord									
SN	Sub Code	Subject	E,	Contact hours					
		Subject	-		Т	Р	Hr	Cr	
1	18M19CI493	Project Seminar	С	0	0	4	4	2	
	18M19CI491	Project, Part -II	С	0	0	28	28	14	
	101411301431	TOTAL	\vdash	_	-	20	32	16	
		TOTAL					32	10	
	List	of Electives for DE-I, DE-II, DE-III, DE-IV,DE	E-V a	and,[DE-VI				
		To be updated from time to time							
1	· · · · · · · · · · · · · · · · · · ·								
2	14M1WCI333	Natural Language Processing							
3	14M1WCI431	Parallel Programming Techniques							
4	11M1WCI432	Performance Evaluation of Networks							
5	13M1WCI331	Machine Learning							
		Advanced Theory of Computation							
		Advanced Web Mining							
8	15M1WCI431	Advanced Al							
9	15M1WCI432	Advanced Computational Techniques in E	ngir	neeri	ng				
10	18M1WCI114	Secure Enterprise Computing							
11	18M1WCI115	Secure Software Design							
12	18M1WCI116	Security Design & Architecture							
13	18M1WCI112	Security investigation							
14	18M1WCI111	Security Risk Analysis							
15	CS	Security Scripting							
16	CS	Algorithmic Graph Theory							
17	CS	Analysis of Algorithms							
18	CS	Cognitive Sciences							
19	CS	Computation Theory and Applications							
20	CS	Computer Vision							
21	CS	Control Systems Security							
22	18M1WCI113	Cyber Warfare & Cyber Crime							
23	CS	Embedded System Design							
24	CS	Fault Tolerant Computing							
25	CS	Grid Computing							
26	CS	Incident Response & Event Management							
27	CS	Information and Network Security							
28	CS	Intelligent Systems							
29	CS	Knowledge Discovery							

30	CS	Machine Learning
31	CS	Mobile Computing
32	CS	Parallel Computing
33	CS	Pattern Recognition
34	CS	Penetration Testing
35	CS	Performance Evaluation of Computer Networks
36	CS	Quantum Algorithms
37	CS	Real Time Operating Systems
38	CS	Theory of Programming Languages
39	CS	Threat & Vulnerability Analysis
40	CS	VLSI Algorithms
41	CS	Advanced Wireless and Mobile Communications
42	CS	Digital CMOS design
43	CS	Digital Signal Processors and Applications
44	CS	Information and Coding Theory
45	CS	VLSI Circuit and System Design
46	CS	VLSI Modelling and Simulation
47	cs	VLSI Testing
48	18M1WCI332	Deep Learning

Summary	Cr
Sem1	23
Sem2	23
Sem3	14
Sem4	16
Total	76