

MASTER OF COMPUTER APPLICATION (MCA) APPRENTICE EMBEDDED

SPECIALIZATION IN: CYBER SECURITY AND CYBER DEFENCE



Faculty of Engineering and Technology

MCA. (Specialization Cyber Security)					
1st Year					
Course code	Semester – 1	L	T	P	Cr
TMA107	Bridge Course(Compulsory for non-mathematics students) (Programming Logic Using C & Foundation of Mathematics)				
Core Courses					
TCS103	Python Programming	3	0	0	3
TCS104	Python Programming Lab	0	0	1	1
TCC315	Cloud Security (Cyber Dojo)	2	0	0	2
TCC316	Cloud Security Labs	0	0	1	1
TMA120	Info Systems Control & Audits (Cyber Dojo)	2	0	0	2
TMA121	Info Systems Control & Audits Labs	0	0	1	1
TAE103	Professional Communication	2	0	1	3
TMA104	Advanced Operating System	3	0	1	4
TCS301	Internet and Web Technology	2	0	0	2
TCS302	Internet and Web Technology Lab	0	0	1	1
TMA102	Advanced DBMS	3	0	1	4
TMA122	Cisco Certified Hardware and Networking Course(Add on) (Cyber Dojo)	2	0	1	3
	Happiness Connect	0	0	2	2
TOTAL					27

Semester – 2 Cyber Security					
Course code	Core Courses	L	T	P	Cr
TCC111	Network Defense (Cyber Dojo)	2	0	0	2
TCC112	Network Defense Labs	0	0	1	1
TCC210	Network Analysis (Cyber Dojo)	2	0	0	2
TCC211	Network Analysis Lab (Cyber Dojo)	0	0	1	1
TCC113	End Point Security (Cyber Dojo)	2	0	0	2
TCC114	End Point Security Labs	0	0	1	1
TCC208	Compliance & Data Protection(Cyber Dojo)	2	0	0	2
TCC209	Compliance & Data Protections Labs	0	0	1	1
TMA123	OT Security (Cyber Dojo)	3	0	0	3
TMA124	OT Security Labs	0	0	1	1
TMA125	Cyber Crime, Cyber Laws and IPR(Cyber Dojo)	2	0	0	2
TCS104	Data Structure using C	2	0	0	2
TCS105	Data Structure using C Lab	0	0	1	1
TOTAL					21

		2nd Year						
		Semester – 3			L	T	P	Cr
Course code	Core Courses							
TMA109	Advanced Java Programming	3	0	1	4			
TCC214	Network & Systems VA PT(Cyber Dojo)	2	0	0	2			
TCC215	Network & Systems VA PT Labs	0	0	1	1			
TCC216	Post Exploitation & Advanced Tech(Cyber Dojo)	2	0	0	2			
TCC217	Post Exploitation & Advanced Tech Labs	0	0	1	1			
TCC307	Web Application Security(Cyber Dojo)	2	0	0	2			
TCC308	Web Application Security Labs	0	0	1	1			
TMA201	Analysis and Design of Algorithm	3	0	1	4			
TMA215	Security Operations & Incident Response(Cyber Dojo)	3	0	0	3			
TMA216	Security Operations & Incident Response Labs	0	0	1	1			
TMA217	Cyber Forensics, Audit & Investigation(Cyber Dojo)	3	0	0	3			
TMA218	Cyber Forensics, Audit & Investigation Labs	1	0	0	1			
TCS307	Project Management for Professionals	3	0	0	3			
TCS308	Project management for professionals Lab	0	0	1	1			
	TOTAL						29	

		Semester – 4			
		L	T	P	Cr
Course code	Core Courses				
TCC309	Threat Analysis (Cyber Dojo)	2	0	0	2
TCC310	Threat Analysis Labs	0	0	1	1
TMA219	Project and Internship	0	0	12	12
	TOTAL				15

