COURSE STRUCTURE – (2018)

5-Year Integrated Master in Technology (CS)

I-Semester			II-Semester		
Code	**Course Title**	**Credits**	**Code**	**Course Title**	**Credits**
EN101	English-I	4-0-0	EN151	English-II	4-0-0
MM103	Math-I	4-0-0	PY151	Waves & Oscillations, Sound & Light theory	4-0-0
SB101	Environmental Science	3-0-0		Math-II	4-0-0
FNxxx	Foundation Course	3-0-0		Programming Methodology	3-0-0
EC101	Introduction to Economics	4-0-0	CSzzz FNyyy	Information Security (also foundation course for other schools	3-0-0
MM203	Probability & Statistics	3-0-0		PM Lab	2
CS711	IT Workshop	2	PY152	Waves, Oscillations & Optics Lab	3
		23			**23**

III-Semester			IV-Semester		
Code	**Course Title**	**Credits**	**Code**	**Course Title**	**Credits**
MM202	Math-III	4-0-0	CA502	Computer Based Optimization Techniques	3-0-0
	Electronics Devices & Circuits (EDC)	4-0-0	CA522	Data & File Structures	3-1-0
CA501	Computer Based Numerical Methods	3-0-0	CA524	Object Oriented Design	3-0-0
CA520	Computer Organization & Architecture	4-0-0	CA528	Theory of Computation	3-0-0
CSxxx	IT Lab(Numerical methods)	2	CSxxx	Signals & Systems	3-0-0
	EDC Lab	2	CSxxx	Java Lab	2
CA500	Mathematical Foundations of Computer Science	3-0-0	CSxxx	IT Lab(DFS)	2
			CS711	Communication Skills Lab	2
		22			**22**

V-Semester			VI-Semester		
Code	Course Title	Credits	Code	Course Title	Credits
CA523	Operating Systems	3-0-1	CA525	Software Engineering	3-0-0
CA545	Internet Technologies	3-0-0	CA527	Computer Networks	3-0-0
CA526	Data Base Management System	3-0-0	CA547	Computer Graphics	3-0-1
CA529	Algorithms	3-1-0	CSxxx	Compiler Design	3-0-1
CSxxx	Principles of Programming Languages	3-0-0		Elective –I	3 or 4
CA512	*DBMS Lab*	2	CS712	*Software Engineering Lab*	2
CSxxx	*IT Lab (Internet Technologies)*	2	CSxxx	*IT Lab (CN)*	2
				Summer Internship	
		21			**21/22**

VII-Semester			VIII-Semester		
Code	Course Title	Credits	Code	Course Title	Credits
CS786	Network Programming	3-0-0	CSxxx	Virtualization	3-0-0
AI720	Essentials of AI	3-0-0		Elective –IV	3 or 4
CSxxx	Advanced Computer Architecture	3-0-0		Elective – V	3 or 4
	Elective –II	3 or 4		Elective – VI	3 or 4
	Elective –III	3 or 4		Elective –VII	3 or 4
IT711	*UNP Lab*	2	CSxxx	*Virtualization Lab*	2
CSxxx	*IT Lab(AI)*	2		Elective – VIII	3
CS710	*RMCS Lab*	2			
		21/23			**20/24**

IX & X Semester		
Code	Course Title	Credits
CS718	Project	21

Total Credits: 194/201