

COURSE STRUCTURE - 2014

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
SB102	Foundation Biology	3-0-0		Information Security	3-0-0
EC101	Introduction to Economics	4-0-0	CA500	Mathematical Foundations of Computer Science	3-0-0
MM203	Probability & Statistics	3-0-0		<i>IT Workshop</i>	2
CS711	<i>Communication Skills Lab</i>	2	PY152	<i>Waves, Oscillations & Optics Lab</i>	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
CA521	Programming Methodology	3-0-0	CSxxx	Signals & Systems	3-0-0
CA510	<i>PM Lab</i>	2	CSxxx	<i>Java Lab</i>	2
CSxxx	<i>IT Lab(Numerical methods)</i>	2	CSxxx	<i>IT Lab(DFS)</i>	2
	<i>EDC Lab</i>	2			
		24			20

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	<i>DBMS Lab</i>	2	CS712	<i>Software Engineering Lab</i>	2
CSxxx	<i>IT Lab (Internet Technologies)</i>	2	CSxxx	<i>IT Lab (CN)</i>	2
				<i>Summer Internship</i>	
		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	<i>UNP Lab</i>	2	CSxxx	<i>Virtualization Lab</i>	2
CSxxx	<i>IT Lab(AI)</i>	2		Elective – VIII	3
CS710	<i>RMCS Lab</i>	2			
		21/23			20/24

IX & X Semester		
Code	Course Title	Credits
CS718	Project	21

Total Credits: 194/201