

Indus University
Indus Institute of Information and Communication Technology
Department of Computer Science
Dual Degree BSc. (CA & IT) + MSc-IT

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-I SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem	Th.	Tut.	Pr.	Total (hr.)	
1	IMSC0106	Logic Building Techniques	4	3	0	2	5	60	40	60	40	200
2	IMSC0107	Fundamentals of Database Management System	6	4	0	4	8	60	40	60	40	200
3	IMSC0108	Computer Organization	4	4	0	0	4	60	40	0	0	100
4	IMSC0109	Matrix Algebra and Graph Theory	4	4	0	0	4	60	40	0	0	100
5	IMSC0110	Communication & Presentation Skills	3	3	0	0	3	60	40	0	0	100
6		Open Elective - I	2	2	0	0	2	60	40	0	0	100
TOTAL			23	20	0	6	26	360	240	120	80	800

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-II SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem	Th.	Tut.	Pr.	Total (hr.)	
1	IMSC0206	Principals of Programming	6	4	0	4	8	60	40	60	40	200
2	IMSC0207	Advanced Database Management System	6	4	0	4	8	60	40	60	40	200
3	IMSC0208	Discrete Mathematics	4	4	0	0	4	60	40	0	0	100
4	IMSC0209	Management Information System	4	4	0	0	4	60	40	0	0	100
5	IMSC0210	Personal Computer Software	2	0	0	4	4	0	0	60	40	100
TOTAL			22	16	0	12	28	240	160	180	120	700

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-III SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem	Th.	Th.	Pr.	Pr.	
Th.	Tut.	Pr.	Total (hr.)	Th.	Th.	Pr.	Pr.					
1	IMSC0306	Introduction to Web Technology	6	4	0	4	8	60	40	60	40	200
2	IMSC0307	Object Oriented Programming using C++	6	4	0	4	8	60	40	60	40	200
3	IMSC0308	Operating System	4	4	0	0	4	60	40	0	0	100
4	IMSC0309	Data Communication Network	4	4	0	0	4	60	40	0	0	100
5		Open Elective - II	3	3	0	0	3	60	40	0	0	100
TOTAL			23	19	0	8	27	300	200	120	80	700

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-IV SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem	Th.	Th.	Pr.	Pr.	
Th.	Tut.	Pr.	Total (hr.)	Th.	Th.	Pr.	Pr.					
1	IMSC0406	Fundamentals of Java Programming	6	4	0	4	8	60	40	60	40	200
2	IMSC0401	Data Structures	6	4	0	4	8	60	40	60	40	200
3	IMSC0407	Mobile Communication	4	4	0	0	4	60	40	0	0	100
4	IMSC0408	Structured & Object Oriented Analysis & Design Methodology	4	4	0	0	4	60	40	0	0	100
5	IMSC0409	Knowledge Management	4	4	0	0	4	60	40	0	0	100
TOTAL			24	20	0	8	28	300	200	120	80	700

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-V SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem					
				Th.	Th.	Pr.	Pr.					
1	IMSC0506	Open Source Programming using PHP	6	4	0	4	8	60	40	60	40	200
2	IMSC0507	Shell Scripting and Programming	6	4	0	4	8	60	40	60	40	200
3	IMSC0508	Software Engineering	6	4	0	4	8	60	40	60	40	200
4	IMSC0505	Software Development Project - I	4	0	0	8	8	0	0	60	40	100
5		Elective-I	3	3	0	0	3	60	40	0	0	100
		TOTAL	25	15	0	20	35	240	160	240	160	800

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-VI SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem					
				Th.	Th.	Pr.	Pr.					
1	IMSC0601	.NET Programming using C#	6	4	0	4	8	60	40	60	40	200
2	IMSC0605	Android Application Development	6	4	0	4	8	60	40	60	40	200
3	IMSC0607	Software Development Project - II	8	0	0	0	0	0	0	120	80	200
4		Elective-II	6	4	0	4	8	60	40	60	40	200
		TOTAL	26	12	0	12	24	180	120	300	200	800

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-VII SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem	Th.	Th.	Pr.	Pr.	
1	IMSC0708	Introduction to Python	6	4	0	4	8	60	40	60	40	200
2	IMSC0709	Introduction to Web Technology	6	4	0	4	8	60	40	60	40	200
3	IMSC0710	Advanced Networking	4	4	0	0	4	60	40	0	0	100
4	IMSC0711	Object Oriented Analysis & Design	4	4	0	0	4	60	40	0	0	100
5	IMSC0712	MOOC Certification	2	0	0	4	4	0	0	60	40	100
6	IMSC0713	Case Study on OOAD	2	0	0	4	4	0	0	60	40	100
TOTAL			24	16	0	16	32	240	160	240	160	800

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-VIII SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem	Th.	Th.	Pr.	Pr.	
1	IMSC0807	Enterprise Java Technologies	6	4	0	4	8	60	40	60	40	200
2	IMSC0808	Advanced Python for Data Sciences	6	4	0	4	8	60	40	60	40	200
3	IMSC0809	Mobile Application Development	6	4	0	4	8	60	40	60	40	200
4	IMSC0810	Internet Of Things	4	4	0	0	4	60	40	0	0	100
5	IMSC0811	Case Study on IoT	2	0	0	4	4	0	0	60	40	100
TOTAL			24	16	0	16	32	240	160	240	160	800

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-IX SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem					
				Th.	Th.	Pr.	Pr.					
1	IMSC0906	.NET Technology using C#	06	4	0	4	8	60	40	60	40	200
2	IMSC0907	Big Data & Data Analytics	06	4	0	4	8	60	40	60	40	200
3	IMSC0908	Virtualization & Applications of Cloud	04	4	0	0	4	60	40	0	0	100
4		Elective-I	04	4	0	0	4	60	40	0	0	100
5	IMSC0909	Mini Project	04	0	0	8	8	0	0	60	40	100
TOTAL			24	16	0	16	32	240	160	180	120	700

INDUS UNIVERSITY, AHMEDABAD												
Dual Degree BSc (CA & IT) + MSc-IT SEMESTER-X SYLLABUS W.E.F. YEAR 2019-20												
Sr. No.	Sub. Code	Name of the subject	CREDIT	Teaching scheme (per week)				Examination Scheme				Total Marks
								Theory		Practical		
				CIE	End Sem	CIE	End Sem					
				Th.	Th.	Pr.	Pr.					
1	IMSC1001	Software Development Project	24	0	0	0	0	0	0	700	100	600
TOTAL			24	0	0	0	0	0	0	700	100	600