BTech-MS Course Structure

Semester –I						Semester -II				
Course	Course Name	L	T	P	C	Course	Course Name	L	T	P	C
IMA 111	Mathematics I	3	1	0	4	IMA 121	Mathematics II	3	1	0	4
ICS 111	IT Workshop I	3	1	3	5	IEC 121	Electronics Circuit	3	1	3	5
ICS 112	Computer Programming	3	1	3	5	ICS 121	Data Structures	3	1	3	5
IEC 111	Digital Design and Electric Circuits	3	1	3	5	ICS 122	Computer Organization	3	1	0	4
IHS 111	Communication Skills	3	1	0	4	ICS 123	IT Workshop II	2	1	3	4
IPT 111	Physical Training I	0	0	2	0	IHS 122	Human Values	2	0	0	2
Total		15	5	9	23	Total		16	5	9	24

Cumulative Credits at the End of First Year: 47

Semester –III						Semester -IV				
Course	Course Name	L	T	P	C	Course	Course Name	L	T	P	C
IMA 211	Mathematics III	3	1	0	4	ICS 221	Theory of Computation	3	1	0	4
ICS 211	Algorithms	3	1	0	4	ICS 222	OOAD	3	0	3	4
ICS 212	Operating Systems	3	1	0	4	ICS 223	Complier Design	3	0	3	4
ICS 213	Introduction to Databases	3	1	0	4	ICS 224	Computer Networks	3	0	3	4
ICS 214	IT Workshop III	2	1	3	4	IMA221	Mathematics IV	3	1	0	4
ISC 211	Science I	3	0	0	3	IHS 221	Economics	3	1	0	4
IPT 211	Physical Training II	0	0	2	0						
Total		17	4	5	23	Total		18	3	9	24

Cumulative Credits at the End of Second Year: 94

Semester –V						Semester -VI				
Course	Course Name	L	T	P	C	Course	Course Name	L	T	P	C
CSE 311	Bouquet Core I	3	0	3	4	CSE 321	Bouquet Core III	3	0	3	4
CSE 312	Bouquet Core II	3	0	3	4	CSE 322	Bouquet Core IV	3	0	3	4
ICS 311	CS Elective I	3	0	3	4	ICS 321	CS Elective II	3	0	3	4
IEC 311	Electronics Elective	3	0	3	4	ICS 322	CS Elective III	3	0	0	3
IMA 311	Mathematics Elective	3	0	0	3	ISC 321	Science Elective	3	0	0	3
IHS 311	Humanities Elective	3	0	0	3	IOE 321	Institute Open Elective I	3	0	0	3
						ICS 321	Honours ProjectI (Optional)				
Total		18	0	12	22	Total		18	0	9	21

Cumulative Credits at the End of Third Year: 137

Semester –VII						Semester -VIII				
Course	Course Name	L	T	P	C	Course	Course Name	L	T	P	C
CSE xxx	Bouquet Core V	3	0	3	4	ICS xxx	CS Elective V	3	0	0	3
CSE xxx	Bouquet Core VI	3	0	3	4	ICS xxx	CS Elective VI/Industrial Training	3	0	3	4
ICS xxx	CS Elective IV	3	0	3	4	IOE xxx	Institute Open Elective III	3	0	0	3
IOE xxx	Institute Open Elective II	3	0	0	3	ICS 421	BTP - II	6	0	0	6
ICS 411	BTP - I	6	0	0	6	ICS xxx	Honours Project II(Optional)				
ICS xxx	Research Course(Optional)					ICS xxx	Research Course(Optional)				
Total		18	0	9	21	Total		15	0	3	16

Cumulative Credits at the End of Fourth Year:174(BTech); 174+ 12=186(BTech(Hon)); 174+20= 194(BTech- MS)

Semester –IX						Semester -X				
Course	Course Name	L	T	P	C	Course	Course Name	L	T	P	C
ICS 511	Research Project	12	0	0	12	ICS 521	Research Project	12	0	0	12
Total		12	0	0	12	Total		12	0	0	12

Cumulative Credits at the End of Fifth Year: 218(BTech-MS)

Remark: *To meet the minimum requirement of 186 credits for qualifying the BTech (Hon)Degree, students may take two additional projects of 6 credits each and, to meet the requirement of 218 credits for BTech-MS, students may take two additional projects of 6 credits each, two 4 credit research courses and 24 credit research project in addition to 174 credits requirement of BTech Degree.*