

# School of Information Sciences, Manipal University

## Master of Engineering – ME (Big Data and Data Analytics)

### Program Structure (August 2016 Onwards)

ME (Big Data and Data Analytics) – Semester I										
Subject Code	Subject Name	Common With	No of Hrs./week				Duration of Exam in Hrs	Maximum Marks		
			Lecture	Tutorial	Practical	Credit		Internal 50	External 50	Total 100
BDA 601	Algorithms and Data Structures for Big Data		3	-	-	3	3	50	50	100
BDA 603	Large Scale Distributed Computing Systems		3	-	-	3	3	50	50	100
BDA 605	Probability and Statistical Inferences		3	-	-	3	3	50	50	100
BDA 607	Modern Database Management Systems		3	-	-	3	3	50	50	100
	Elective – I		3	-	-	3	3	50	50	100
BDA 651	Algorithms and Data Structures for Big Data Lab		-	-	3	1	3	50	50	100
BDA 653	Large Scale Distributed Computing Systems Lab		-	-	3	1	3	50	50	100
BDA 655	Probability and Statistical Inferences Lab		-	-	3	1	3	50	50	100
BDA 657	Modern Database Management Systems Lab		-	-	3	1	3	50	50	100
BDA 659	Elective – I Lab		-	-	3	1	3	50	50	100
BDA 695	Mini Project – I		-	-	-	4	-	100	-	100
BDA 697	Seminar – I		-	-	-	1	-	100	-	100
<b>Total</b>			<b>15</b>	<b>-</b>	<b>15</b>	<b>25</b>				

ME (Big Data and Data Analytics) – Semester II										
Subject Code	Subject Name	Common With	No of Hrs. / week				Duration of Exam in Hrs	Maximum Marks		
			Lecture	Tutorial	Practical	Credit		Internal 50	External 50	Total 100
BDA 602	Machine Learning		3	-	-	3	3	50	50	100
BDA 604	Architecture of Big Data Systems		3	-	-	3	3	50	50	100
BDA 606	Multiple Linear Regression and Logistic Regression		3	-	-	3	3	50	50	100
BDA 608	Healthcare Informatics		3	-	-	3	3	50	50	100
	Elective – II		3	-	-	3	3	50	50	100
BDA 652	Machine Learning Lab		-	-	3	1	3	50	50	100
BDA 654	Architecture of Big Data Systems Lab		-	-	3	1	3	50	50	100
BDA 656	Multiple Linear Regression and Logistic Regression Lab		-	-	3	1	3	50	50	100
BDA 658	Healthcare Informatics Lab		-	-	3	1	3	50	50	100
BDA 660	Elective – II Lab		-	-	3	1	3	50	50	100
BDA 696	Mini Project – II		-	-	-	4	-	100	-	100
BDA 698	Seminar – II		-	-	-	1	-	100	-	100
<b>TOTAL</b>			<b>15</b>	<b>-</b>	<b>15</b>	<b>25</b>				

ME (Big Data and Data Analytics) – Semester III & IV										
BDA 799	Project Work	-	-	-	25					
Total Number of Credits to Award Degree								75		

### The List of Electives Offered in the First and Second Semesters

Elective I			Elective II		
Sub Code	Subject	Common With	Sub Code	Subject	Common With
BDA 615.1	DevOps for Big Data Systems		BDA 616.1	Text Retrieval and Search Engines	
BDA 615.2	Mobile Web Application Development		BDA 616.2	Applied Multivariate Analysis	