

**BIJU PATNAIK UNIVERSITY OF TECHNOLOGY,  
ODISHA  
ROURKELA**



**Course Structure**

**2 Yrs Master in Computer Application (MCA)  
from the Admission Batch  
2020-21**

<b>First Semester</b>							
<b>Theory</b>							
Sl. No.	Category	Course Code	Course Title	L-T-P	Credit	University Marks	Internal Evaluation
1	BS	MCA01001	Discrete Mathematics	3-0-0	3	100	50
2	PC	MCA01002	Computer System Architecture	3-0-0	3	100	50
3	PC	MCA01003	C and Data Structure	3-0-0	3	100	50
4	PC	MCA01004	Operating System	3-0-0	3	100	50
5	PC	MCA01005	Database Engineering	3-0-0	3	100	50
<b>Total Credit (Theory)</b>					<b>15</b>		
<b>Total Marks</b>						<b>500</b>	<b>250</b>
<b>Practical</b>							
1	PC	MCA01006	Data Structure Using C Lab	0-0-3	2		100
2	PC	MCA01007	Operating System Lab	0-0-3	2		100
3	PC	MCA01008	Database Engineering Lab	0-0-3	2		100
<b>Total Credit (Practical)</b>					<b>6</b>		
<b>Total Semester Credit</b>					<b>21</b>		
<b>Total Marks</b>							<b>300</b>

<b>Second Semester</b>							
<b>Theory</b>							
Sl. No.	Category	Course Code	Course Title	L-T-P	Credit	University Marks	Internal Evaluation
1	PC	MCA02001	Computer Networks	3-0-0	3	100	50
2	PC	MCA02002	Analysis and Design of Algorithms	3-0-0	3	100	50
3	PC	MCA02003	Object Oriented Programming Using Java	3-0-0	3	100	50
4	PC	MCA02004	Object Oriented Analysis & Design	3-0-0	3	100	50
5	PC	MCA02005	Internet and Web Programming	3-0-0	3	100	50
<b>Total Credit (Theory)</b>					<b>15</b>		
<b>Total Marks</b>						<b>500</b>	<b>250</b>
<b>Practical</b>							
1	PC	MCA02006	Java and Python Programming Lab	0-0-3	2		100
2	PC	MCA02007	Computer Networks Lab	0-0-3	2		100
3	PC	MCA02008	Algorithm Design Lab	0-0-3	2		100
<b>Total Credit (Practical)</b>					<b>6</b>		
<b>Total Semester Credit</b>					<b>21</b>		
<b>Total Marks</b>							<b>300</b>

<b>Third Semester</b>							
<b>Theory</b>							
Sl. No.	Category	Course Code	Course Title	L-T-P	Credit	University Marks	Internal Evaluation
1	PC	MCA03001	Software Engineering	3-0-0	3	100	50
2	PC	MCA03002	Compiler Design	3-0-0	3	100	50
3	NPTEL-MOOC	MCA03003 (NM- )	Elective-I ( To be opted from NPTEL MOOC Pool)		3	-	-
4	NPTEL-MOOC	MCA03004 (NM- )	Elective-II (To be opted from NPTEL MOOC Pool)		3	-	-
5	NPTEL-MOOC	MCA03005 (NM- )	Elective-III (To be opted from NPTEL MOOC Pool)		3	-	-
<b>Total Credit (Theory)</b>					<b>15</b>		
<b>Total Marks</b>						<b>200</b>	<b>100</b>
<b>Practical</b>							
1	PC	MCA03006	Software Engineering Lab	0-0-3	2		100
2	PC	MCA03007	Seminar and Technical Writing	0-0-3	2		100
3	PC	MCA03008	Web Programming Lab	0-0-3	2		100
<b>Total Credit (Practical)</b>					<b>6</b>		
<b>Total Semester Credit</b>					<b>21</b>		
<b>Total Marks</b>							<b>300</b>

<b>Fourth Semester</b>							
<b>Theory</b>							
Sl. No.	Category	Course Code	Course Title	L-T-P	Credit	University Marks	Internal Evaluation
<b>Practical</b>							
1	PC	MCA04001	Comprehensive Viva-Voice	0-0-2	2		100
2	PC	MCA04002	Internship/ Major Project	0-0-8	15		500
<b>Total Credit (Practical)</b>					<b>17</b>		
<b>Total Semester Credit</b>					<b>17</b>		
<b>Total Marks</b>							<b>600</b>