



**BRAINWARE UNIVERSITY**  
**Department of Computer Science**  
**Bachelor of Science (Honours) in Computer Science 2017**

**SEMESTER – I**

<b>Paper Code</b>	<b>Paper Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
HU101	Communicative English	4-0-0	4	100
EC101	Introduction to Electrical circuits and Basic Electronics I	3-1-0	4	100
BCS101	Computer Fundamentals and PCS	3-1-0	4	100
BCS102	Business System Administration	3-1-0	4	100
BCS103	Mathematics I	3-1-0	4	100
HU191	English Communication Lab	0-0-4	2	100
EC191	Basic Electronics I and Electrical Circuits Lab	0-0-4	2	100
BCS191	Computer Fundamentals and PCS Lab	0-0-4	3	100
	<b>Total</b>		<b>27</b>	<b>800</b>

**SEMESTER – II**

<b>Paper Code</b>	<b>Paper Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
ENV201	Environmental Studies	3- 1 – 0	4	100
HU201	Business Communication I	4 – 0 - 0	4	100
EC201	Basic Electronics II: Analog Electronics	3- 1 – 0	4	100
BCS201	Principle of Programming Language	3- 1 – 0	4	100
BCS202	Data Structures and Algorithm	3- 1 – 0	4	100
BCS203	Mathematics II	3- 1 – 0	4	100
EC291	Basic Electronics II: Analog Electronics Lab	0 – 0 – 4	2	100
BCS291	C Programming Lab	0 – 0 – 4	3	100
BCS292	Data Structures Lab	0 – 0 – 4	3	100
	<b>Total</b>		<b>32</b>	<b>900</b>



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**SEMESTER – III**

Paper Code	Paper Name	L-T-P	Credits	Total Marks
HU301	Business Communication-II	2-0-0	2	100
EC301	Digital Electronics and Instrumentation	3-1-0	4	100
BCS301	Computer Networks	3-1-0	4	100
BCS302	Computer Architecture and Organization	3-1-0	4	100
BCS303	Operating System	3-1-0	4	100
EC391	Digital Electronics and Instrumentation Lab	0-0-4	2	100
BCS391	Computer Networks Lab	0-0-4	3	100
BCS392	Computer Architecture and Organization Lab	0-0-4	3	100
	<b>Total</b>		<b>26</b>	<b>800</b>

**SEMESTER – IV**

Paper Code	Paper Name	L - T - P	Credits	Total Marks
HU401	Business Communication III	2 - 0 - 0	2	100
EC401	Microprocessor and Microcontroller	3- 1 - 0	4	100
BCS401	Database Management Systems	3- 1 - 0	4	100
BCS402	Object Oriented Technologies	3- 1 - 0	4	100
EC491	Microprocessor Lab	0 - 0 - 4	2	100
BCS491	DBMS Lab	0 - 0 - 4	3	100
BCS492	Java Lab	0 - 0 - 4	3	100
BCS481	Literature Survey	0- 0 - 2	2	100
	<b>Total</b>		<b>24</b>	<b>800</b>



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**SEMESTER – V**

<b>Paper Code</b>	<b>Paper Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
ENV501	Disaster Management	2 – 0 - 0	2	100
BCS501	A. Internet Technology B. Image Processing	3- 1 – 0	4	100
BCS502	A. Advanced Java B. Computer Graphics	3 -1 - 0	4	100
BCS503	Introduction to Automata Theory	3- 1 – 0	4	100
BCS504	Soft Computing	3- 1 – 0	4	100
BCS591	A. Internet Technology Lab B. Image Processing Lab	0- 0 – 4	3	100
BCS592	A. Advanced Java Lab B. Computer Graphics Lab	0 – 0 – 4	3	100
BCS581	Minor project	0 – 0 – 4	2	100
BCS582	Industrial Training	4 Weeks during semester break	2	100
	<b>Total</b>		<b>28</b>	<b>900</b>

**SEMESTER – VI**

<b>Paper Code</b>	<b>Paper Name</b>	<b>L - T - P</b>	<b>Credits</b>	<b>Total Marks</b>
HU601	Values and Ethics	2 – 0 – 0	2	100
BCS602	Software Engineering	3 –1 – 0	4	100
BCS603	A. Machine Learning B. Compiler Design	3- 1 – 0	4	100
BCS681	Major Project	0 – 0 – 4	10	100
BCS682	Grand Viva		4	100
	<b>Total</b>		<b>24</b>	<b>500</b>

**Total credit: 160**