

**BVM Engineering College (An Autonomous Institution)****Information Technology Department****B. Tech.(Information Technology)****Semester 1**

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">BS111*</a>	<a href="#">Advanced Calculus</a>	3	1	0	4	4
2	<a href="#">BS104</a>	<a href="#">Semiconductor Physics</a>	3	0	2	5	4
3	<a href="#">ES103</a>	<a href="#">Basic Electrical Engineering</a>	3	0	2	5	4
4	<a href="#">ES105</a>	<a href="#">Programming for Problem Solving</a>	3	0	2	5	4
5	<a href="#">ES108</a>	<a href="#">Computer Workshop</a>	0	0	2	2	1
6	<a href="#">HS112\$</a>	<a href="#">Environmental Science#</a>	3	0	0	3	0
<b>Total</b>			<b>15</b>	<b>1</b>	<b>8</b>	<b>24</b>	<b>17</b>

\*For Students admitted in AY 2018-19, [BS101](#) (LTP:3,2,0)

\$For Students admitted in AY 2018-19, [HS102](#) (LTP:2,2,0)

#Non-Credit Mandatory course

**Semester 2**

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">BS112#</a>	<a href="#">Linear Algebra and Fourier Series</a>	3	1	0	4	4
2	<a href="#">ES101</a>	<a href="#">Basic Electronics</a>	3	0	2	5	4
3	<a href="#">ES109</a>	<a href="#">Engineering Graphics &amp; Design</a>	2	0	4	6	4
4	<a href="#">ES112</a>	<a href="#">Basics of Manufacturing Practices</a>	0	0	2	2	1
5	<a href="#">ES116</a>	<a href="#">Introduction to Web Programming</a>	0	0	4	4	2
6	<a href="#">HS101</a>	<a href="#">English</a>	2	0	2	4	3
<b>Total</b>			<b>10</b>	<b>1</b>	<b>14</b>	<b>25</b>	<b>18</b>

#For Students admitted in AY 2018-19, [BS102](#) (LTP:3,2,0)

### Semester 3

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">2BS01</a>	<a href="#">Ordinary Differential Equations and Statistics</a>	3	1	0	4	4
2	<a href="#">2IT01</a>	<a href="#">Digital Electronics</a>	3	0	2	5	4
3	<a href="#">2HS01</a>	<a href="#">Professional Soft Skills</a>	1	0	2	3	2
4	<a href="#">2IT02</a>	<a href="#">Computer Networks</a>	3	0	2	5	4
5	<a href="#">2IT03</a>	<a href="#">Database Management System</a>	3	0	2	5	4
6	<a href="#">2IT04</a>	<a href="#">Object Oriented Programming with C++</a>	3	0	2	5	4
<b>Total</b>			<b>16</b>	<b>1</b>	<b>10</b>	<b>27</b>	<b>22</b>

### Semester 4

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	<a href="#">2IT05</a>	<a href="#">Computer Oriented Numerical Methods</a>	3	0	2	5	4
2	<a href="#">2HS02</a>	<a href="#">Economics &amp; Management</a>	3	0	0	3	3
3	<a href="#">2IT06</a>	<a href="#">Advanced Web Technology</a>	3	0	2	5	4
4	<a href="#">2IT07</a>	<a href="#">Computer Organization</a>	2	1	0	3	3
5	<a href="#">2IT08</a>	<a href="#">Data Structures</a>	3	0	2	5	4
6	<a href="#">2IT09</a>	<a href="#">Operating System</a>	3	0	2	5	4
<b>Total</b>			<b>17</b>	<b>1</b>	<b>8</b>	<b>26</b>	<b>22</b>

<a href="#">ITIS1</a>	<a href="#">Summer Internship – I (Two Weeks)#</a>	-	-	-	-	0
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#Non-Credit Mandatory course

### Semester 5

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Open Elective - I	3	0	0	3	3
2	<a href="#">3IT01</a>	<a href="#">Design and Analysis of Algorithms</a>	3	0	2	5	4
3	<a href="#">3IT02</a>	<a href="#">Information Security</a>	3	0	2	5	4
4	<a href="#">3IT03</a>	<a href="#">Object Oriented Programming with Java</a>	3	0	2	5	4
5	<a href="#">3IT04</a>	<a href="#">Advanced Programming Practices</a>	0	0	4	4	2
6	<a href="#">3IT05</a>	<a href="#">Management Information System</a>	3	1	0	4	4
7	<a href="#">3HS01</a>	<a href="#">Ethics &amp; Constitution of India#</a>	2	0	0	2	0
<b>Total</b>			<b>17</b>	<b>1</b>	<b>10</b>	<b>28</b>	<b>21</b>

#Non-Credit Mandatory course

#### Open Elective - I

1	<a href="#">3IT81</a>	<a href="#">Cyber security</a>	3	0	0	3	3
2	<a href="#">3IT82</a>	<a href="#">Internet Technology</a>	3	0	0	3	3
3	<a href="#">3IT83</a>	<a href="#">Software Project Management</a>	3	0	0	3	3
4	<a href="#">3IT84</a>	<a href="#">Enterprise Resource Planning</a>	3	0	0	3	3

### Semester 6

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1		Open Elective - II	3	0	2	5	4
2	<a href="#">3IT06</a>	<a href="#">Theory of Computation</a>	3	1	0	4	4
3	<a href="#">3IT07</a>	<a href="#">Data Warehousing &amp; Data Mining</a>	3	0	2	5	4
4		Programme Elective - I	3	0	2	5	4
5		Programme Elective - II	3	0	2	5	4
6	<a href="#">3IT31</a>	<a href="#">Mini Project</a>	0	0	4	4	2
<b>Total</b>			<b>15</b>	<b>1</b>	<b>12</b>	<b>28</b>	<b>22</b>

<a href="#">ITIS2</a>	<a href="#">Summer Internship - II</a> (Two Weeks)#	-	-	-	-	-	0
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#Non-Credit Mandatory course

### Open Elective-II

1	<a href="#">3IT85</a>	<a href="#">Web Application and Development</a>	3	0	2	5	4
2	<a href="#">3IT86</a>	<a href="#">Java Programing</a>	3	0	2	5	4
3	<a href="#">3IT87</a>	<a href="#">Object Oriented Programming with C++</a>	3	0	2	5	4
4	<a href="#">3IT88</a>	<a href="#">Mobile Application Development</a>	3	0	2	5	4

### Programme Elective - I

1	<a href="#">3IT41</a>	<a href="#">Advanced Java Technology</a>	3	0	2	5	4
2	<a href="#">3IT42</a>	<a href="#">Dot Net Technology</a>	3	0	2	5	4

### Programme Elective - II

1	<a href="#">3IT43</a>	<a href="#">Mobile Application Development</a>	3	0	2	5	4
2	<a href="#">3IT44</a>	<a href="#">Computer Graphics</a>	3	0	2	5	4

### Semester 7

Sr. No.	Course Code	Name of Course	L	T	P	H	C
1	4IT01	Python Programming	3	0	2	5	4
2	4IT02	Big Data Analytics & Visualization	3	0	2	5	4
3		Programme Elective - III	3	0	2	5	4
4		Programme Elective - IV	3	0	2	5	4
5	4IT31	Project-I	0	0	8	8	4
<b>Total</b>			<b>12</b>	<b>0</b>	<b>16</b>	<b>28</b>	<b>20</b>

### Program Elective - III

1	4IT41	Compiler Design	3	0	2	5	4
2	4IT42	Internet of Things	3	0	2	5	4
3	4IT43	Image Processing	3	0	2	5	4
4	4IT44	Cloud Computing	3	0	2	5	4

### Program Elective - IV

4IT45	Artificial Intelligence	3	0	2	5	4
4IT46	Wireless Technologies and Mobile Computing	3	0	2	5	4
4IT47	Machine Learning	3	0	2	5	4
4IT48	Block chain Technology	3	0	2	5	4

**Semester 8 [Scheme A]**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Name of Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>H</b>	<b>C</b>
1		Programme Elective - V	3	0	2	5	4
2		Programme Elective - VI	3	0	2	5	4
3	4IT32	Project-II	0	0	16	16	8
<b>Total</b>			<b>6</b>	<b>0</b>	<b>20</b>	<b>26</b>	<b>16</b>

**Program Elective - V**

1	4IT49	Modern Networks	3	0	2	5	4
2	4IT50	Advanced Database Management Systems	3	0	2	5	4
3	4IT51	Advanced Operating System	3	0	2	5	4
4	4IT52	Cyber Security	3	0	2	5	4

**Program Elective - VI**

1	4IT53	Data Compression	3	0	2	5	4
2	4IT54	Modelling Simulation & Operation Research	3	0	2	5	4
3	4IT55	Service Oriented Architecture	3	0	2	5	4
4	4IT56	Computer Vision	3	0	2	5	4

**OR****Semester 8 [Scheme B]**

<b>Sr. No.</b>	<b>Course Code</b>	<b>Name of Course</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>H</b>	<b>C</b>
1	4IT33	Major Project	0	0	32	32	16
<b>Total Credits Distribution</b>			<b>108</b>	<b>6</b>	<b>98</b>	<b>212</b>	<b>158</b>