

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	BS111*	Advanced Calculus	3	1	0	4	4
2	BS104	Semiconductor Physics	3	0	2	5	4
3	ES103	Basic Electrical Engineering	3	0	2	5	4
4	ES105	Programming for Problem Solving	3	0	2	5	4
5	ES108	Computer Workshop	0	0	2	2	1
6	HS112\$	Environmental Science#	2	0	0	2	0
Total			14	1	8	23	17

*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	BS112#	Linear Algebra and Fourier Series	3	1	0	4	4
2	ES101	Basic Electronics	3	0	2	5	4
3	ES109	Engineering Graphics & Design	2	0	4	6	4
4	ES112	Basics of Manufacturing Practices	0	0	2	2	1
5	ES116	Introduction to Web Programming	0	0	4	4	2
6	HS101	English	2	0	2	4	3
Total			10	1	14	25	18

#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	2BS01	Ordinary Differential Equations and Statistics	3	1	0	4	4
2	2IT01	Digital Electronics	3	0	2	5	4
3	2HS01	Professional Soft Skills	1	0	2	3	2
4	2IT02	Computer Networks	3	0	2	5	4
5	2IT03	Database Management System	3	0	2	5	4
6	2IT04	Object Oriented Programming with C++	3	0	2	5	4
Total			16	1	10	27	22

Semester 4

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

ITIS1	Internship – I (Two Weeks)#	-	-	-	-	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	3IT01	Design and Analysis of Algorithms	3	0	2	5	4
3	3IT02	Information Security	3	0	2	5	4
4	3IT03	Object Oriented Programming with Java	3	0	2	5	4
5	3IT04	Advanced Programming Practices	0	0	4	4	2
6	3IT05	Management Information System	3	1	0	4	4
7	3HS01	Ethics & Constitution of India#	2	0	0	2	0
Total			17	1	10	28	21

#Non-Credit Mandatory course

Open Elective - I

1.	3CE81	Environment And Health	3	0	0	3	3
2.	3CE83	Earth System and Geo-environment	3	0	0	3	3
3.	3SE81	Disaster Management and Mitigation	3	0	0	3	3
4.	3EE81	Energy Audit & Conservation	3	0	0	3	3
5.	3EE83	Installation and Commissioning of Electrical Equipments	3	0	0	3	3
6.	3EL81	Electronic Communication System	3	0	0	3	3
7.	3EC81	Introduction to Cellular Communication	3	0	0	3	3
8.	3EC82	Applied Electronics	3	0	0	3	3
9.	3ME81	Industrial Engineering and Quality Assurance	3	0	0	3	3
10.	3ME82	Project Management	3	0	0	3	3
11.	3PE81	Principles Of Supply Chain Management	3	0	0	3	3
12.	3PE82	Industrial Internet Of Things	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	3IT06	Theory of Computation	3	1	0	4	4
3	3IT07	Data Warehousing and Data Mining	3	0	2	5	4
4		Programme Elective – I	3	0	2	5	4

5		Programme Elective – II	3	0	2	5	4
6	3IT31	Mini Project	0	0	4	4	2
Total			15	1	12	28	22
	ITIS2	Internship – II (Two Weeks)#	-	-	-	-	0
#Non-Credit Mandatory course							
Open Elective - II							
1.	3CE82	Geo-Informatics	3	0	2	5	4
2.	3SE82	Advanced Strength of Materials	3	0	2	5	4
3.	3SE83	Basic Concepts of Structural Behaviour	3	0	2	5	4
4.	3EE82	Renewable Energy Technology	3	0	2	5	4
5.	3EE84	Industrial Automation	3	0	2	5	4
6.	3EL82	Basics of Embedded and IoT Systems	3	0	2	5	4
7.	3EL83	Sensor Technology	3	0	2	5	4
8.	3EC83	Embedded Systems and IOT	3	0	2	5	4
9.	3ME83	Renewable Energy Sources	3	0	2	5	4
10.	3ME84	Energy Conservation and Management	3	0	2	5	4
11.	3PE83	Managing Projects	3	0	2	5	4
12.	3PE84	Additive Manufacturing	3	0	2	5	4
Programme Elective – I							
1	3IT41	Advanced Java Technology	3	0	2	5	4
2	3IT42	Dot Net Technology	3	0	2	5	4
Programme Elective – II							
1	3IT43	Mobile Application Development	3	0	2	5	4
2	3IT44	Computer Graphics	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
Total			12	0	16	28	20

Program Elective - III

1	4IT45	Artificial Intelligence	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

1	4IT41	Compiler Design	3	0	2	5	4
2	4IT46	Wireless Technologies and Mobile Computing	3	0	2	5	4
3	4IT47	Machine Learning	3	0	2	5	4
4	4IT48	Block chain Technology	3	0	2	5	4

Semester 8 [Scheme A]

Sr. No.	Course Code	Name of Course	L	T	P	H	C
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
Total			6	0	20	26	16

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	Linux Internals	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 and 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
5	4IT57	Quantum Computing	3	0	2	5	4

OR**Semester 8 [Scheme B]**

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

