VISHNU INSTITUTE OF TECHNOLOGY (AUTONOMOUS) :: BHIMAVARAM

DEPARTMENT OF INFORMATION TECHNOLOGY

Course Structure for B. Tech. (With effect from 2019-2020)

S.No	Subject	L	T	P	C	I	E
I YEAR I SEMESTER							
1	Mathematics-I (Linear Algebra and Calculus)	2	1	-	3	40	60
2	Applied Chemistry	3	-	-	3	40	60
3	Computer Programming Using C	3	-	-	3	40	60
4	Elements of Electrical and Electronic Engineering	3	-	-	3	40	60
5	Engineering Graphics and Design	1	-	3	2.5	40	60
6	Applied Chemistry Lab	-	-	3	1.5	40	60
7	Computer Programming Lab	-	-	3	1.5	40	60
8	Electrical and Electronic Engineering Lab	-	-	3	1.5	40	60
9	Environmental Science	3	-	-	-	0	0
	Total	**15**	**1**	**12**	**19**	**320**	**480**
						800	

S.No	Subject	L	T	P	C	I	E
I YEAR II SEMESTER							
1	Communicative English	2	-	-	2	40	60
2	Mathematics –II (Probability and Statistics)	3	1	-	4	40	60
3	Applied Physics	3	-	-	3	40	60
4	Python Programming	3	-	-	3	40	60
5	English Communication Skills Lab	-	-	3	1.5	40	60
6	Applied Physics Lab (Virtual Lab)	-	-	3	1.5	40	60
7	Python Programming Lab	-	-	3	1.5	40	60
8	Engineering Workshop and IT Workshop	-	-	3	1.5	40	60
9	Constitution of India / Essence of Indian Traditional Knowledge	3	-	-	-	0	0
	Total	**14**	**1**	**12**	**18**	**320**	**480**
						800	

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S.No	II YEAR I SEMESTER Subjects	L	T	P	C	I	E
1	Software Engineering	3	-	-	3	40	60
2	Discrete Mathematical Structures	2	1	-	3	40	60
3	AI Tools, Techniques & Applications	3	-	-	3	40	60
4	Data Structures & Algorithms	3	-	-	3	40	60
5	Digital Logic Design	3	-	-	3	40	60
6	Object Oriented Programming through Java	3	-	-	3	40	60
7	Quantitative Aptitude I	3	-	-	0	0	0
8	AI Tools, Techniques & Applications Lab	-	-	3	1.5	40	60
9	Data Structures & Algorithms Lab	-	-	3	1.5	40	60
10	Object Oriented Programming through Java Lab	-	-	3	1.5	40	60
	Total	**20**	**1**	**9**	**22.5**	**360**	**540**
						900	

S.No	II YEAR II SEMESTER Subjects	L	T	P	C	I	E
1	Internet of Things (IOT)	3	-	-	3	40	60
2	E Commerce	3	-	-	3	40	60
3	Database Management Systems	3	-	-	3	40	60
4	Formal Language Automata Theory	3	-	-	3	40	60
5	Computer Organization and Architecture	3	-	-	3	40	60
6	Logical Reasoning	3	-	-	0	0	0
7	Socially Relevant Project (15 Hrs/Sem)	-	-	1	0.5	20	30
8	Business English Communication Lab	-	-	3	1.5	40	60
9	Design Thinking & Product Innovation Lab	-	-	3	1.5	40	60
10	Database Management Systems Lab	-	-	3	1.5	40	60
11	Internet of Things Lab	-	-	3	1.5	40	60
	Total	**18**	**0**	**13**	**21.5**	**380**	**570**
						950	

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S.No	Subject	L	T	P	C	I	E
III YEAR I SEMESTER							
1	Computer Networks	3	-	-	3	40	60
2	Operating Systems	3	-	-	3	40	60
3	Compiler Design	3	-	-	3	40	60
4	**Professional Elective I**						
	1. Software Testing Methodologies	3			3	40	60
	2. Data Science						
	3. Full Stack Web Development						
	4. Human Computer Interaction		-	-			
5	**Open Elective I (Inter Disciplinary Elective I)**						
	1. Principles of Communication Systems	3	-	-	3	40	60
	2. Robotics						
	3. Embedded Systems						
	4. Statistics with R Programming						
	5. Electronic Devices and Circuits(EDC)						
6	Mathematic-III (Differential Calculus and Number Theory & Applications)	2	1	-	3	40	60
7	Socially Relevant Projects (15 Hrs /Sem)	-	-	1	0.5	20	30
8	Quantitative Aptitude II	2	-	-	1	20	30
9	PE-I Lab	-	-	3	1.5	40	60
10	CN Lab	-	-	3	1.5	40	60
11	OS & CD Lab	-	-	3	1.5	40	60
	Total	**19**	**1**	**10**	**24**	**400**	**600**
						1000	

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S.No	Subject	L	T	P	C	I	E
	III YEAR II SEMESTER						
1	Advanced Java & Web Technologies	3	1	-	4	40	60
2	Unix & Shell Programming	3	-	-	3	40	60
3	Design and Analysis of Algorithms	3	-	-	3	40	60
	Professional Elective II						
4	1. Software Project Management 2. Machine Learning 3. NoSQL Databases 4. Computer Graphics & 3D Design	3	-	-	3	40	60
	Humanities Elective I						
5	1. Management Science 2. Life Sciences for Engineering 3. Foreign Language	3	-	-	3	40	60
6	AJWT Lab	-	-	3	1.5	40	60
7	Unix & Shell programming Lab	-	-	3	1.5	40	60
8	Advanced English Communication Skills Lab	-	-	3	1.5	40	60
9	Socially Relevant Projects (15 hrs / semester)	-	-	1	0.5	20	30
10	Industrial Training/ Internship/ Research Projects in National Laboratories/Academic Institutions *	-	-	-	-	-	-
	Total	15	1	10	21	340	510
						850	

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S.No	Subject	L	T	P	C	I	E
	IV YEAR I SEMESTER						
1	Network Security and Cryptography	3	-	-	3	40	60
	Professional Elective III						
2	1. Software Architectures 2. Natural Language Processing 3. Dev Ops 4. Augmented Reality and Virtual Reality	3	-	-	3	40	60
	Professional Elective IV						
3	1. UML & DP 2. Big Data Analytics 3. Web Services 4. Game Development	3	-	-	3	40	60
	Open Elective II						
4	1. Digital Image Processing 2. Green Building Technologies 3. Information Theory and Coding 4. Principles of Signal Processing 5. MAT LAB Programming and ML Tool Box	3	-	-	3	40	60
	Humanities Elective II						
5	1. Managerial Economics and Financial Analysis 2. IPRP 3. Education, Technology and Society	3	-	-	3	40	60
6	Network Security Lab	-	-	3	1.5	40	60
7	PE-IV Lab	-	-	3	1.5	40	60
8	Project I (Mini Project)	-	-	2	1	20	30
9	Industrial Training/Internship/Research Projects in National Laboratories/Academic Institutions	-	-	-	2	20	30
	Total	15	0	10	21	320	480
						800	

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S.No	Subject	L	T	P	C	I	E
	IV YEAR II SEMESTER						
	Open Elective III/ MOOC *						
1	1 Wireless Sensor Networks	3	-	-	3	40	60
	2 Nano Technology						
	3 Electronic Measurements and Instrumentation						
	4. Speech Processing						
	5. Operations Research						
	Professional Elective V / MOOC*						
2	1. Real-Time Systems	3	-	-	3	40	60
	2. Deep Learning						
	3. Mobile Application Development						
	4. Block Chain Technologies						
3	Project II	-	-	14	7	80	120
	Total	**3**	**0**	**14**	**13**	**160**	**240**
						400	