

**13. Courses of Study and Scheme of Assessment**  
**BTECH INFORMATION TECHNOLOGY**

**(2019 Regulations)**

Course Code	Course Title	Periods / week			Maximum Marks					
		Lecture	Tutorial	Practical	Credits	CA	FE	Total	CAT	
<b>SEMESTER VII</b>										
19I701	Cloud Computing	3	0	0	3	50	50	100	PC	
19I702	Cryptography	3	0	0	3	50	50	100	PC	
19_____	Open Elective II	3	0	0	3	50	50	100	OE	
19I_____	Professional Elective III	3	0	0	3	50	50	100	PE	
19I_____	Professional Elective IV	3	0	0	3	50	50	100	PE	
19I710	Software Testing Laboratory	0	0	4	2	50	50	100	EEC	
19I720	Project Work I	0	0	4	2	50	50	100	EEC	
<b>Total 23 periods</b>		<b>15</b>	<b>0</b>	<b>8</b>	<b>19</b>	<b>350</b>	<b>350</b>	<b>700</b>		
<b>SEMESTER VIII</b>										
19I_____	Professional Elective V	3	0	0	3	50	50	100	PE	
19I_____	Professional Elective VI	3	0	0	3	50	50	100	PE	
19I820	Project Work II	0	0	8	4	50	50	100	EEC	
<b>Total 14 periods</b>		<b>6</b>	<b>0</b>	<b>8</b>	<b>10</b>	<b>150</b>	<b>150</b>	<b>300</b>		

CA            Continuous Assessment  
 FE            Final Examination

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## PROFESSIONAL ELECTIVES

- 19I001 Big Data Analytics
- 19I002 Compiler Design
- 19I003 Computer Vision
- 19I004 Cyber Physical Systems
- 19I005 Cyber Security
- 19I006 Deep Learning
- 19I007 Digital Image Processing
- 19I008 Distributed Computing
- 19I009 Graphics and Multimedia
- 19I010 Healthcare Informatics
- 19I011 Human Computer Interaction
- 19I012 Information Ethics
- 19I013 Intelligent Systems
- 19I014 Machine Learning
- 19I015 Modelling and Simulation
- 19I016 Multi-Core Computing
- 19I017 Natural Language Processing
- 19I018 Network Security
- 19I019 Optimization Techniques
- 19I020 Secure Coding
- 19I021 Soft Computing
- 19I022 Software Process Management
- 19I023 Software Quality Assurance
- 19I024 Swarm Intelligence
- 19I025 System Software
- 19I026 TCP/IP and Socket Programming
- 19I027 Linux Internals
- 19I028 Web Services and Service Oriented Architecture
- 19I029 Geo database and information Systems
- 19I030 Knowledge Representation and Reasoning

## LANGUAGE ELECTIVES

- 19G001 Communication Skills for Engineers
- 19G002 German- Level A1.1
- 19G003 French Language Level 1
- 19G004 Basic Japanese

## ONE-CREDIT COURSES

### INFORMATION TECHNOLOGY

- 19IF01 Augmented Reality
- 19IF02 Block Chain Technology
- 19IF03 Cyber Forensics
- 19IF04 Edge/Fog Computing
- 19IF05 Industrial Automation
- 19IF06 Machine to Machine Communication
- 19IF07 Tiled-Chip Multi-Core Processors

19IF08 Unified Communication Services  
 19IF09 Virtual Reality  
 19IF10 5G Networks

**ENGLISH**

19GF01 Interpersonal and Organizational Communication  
 19GF02 Human Values Through Literature

**HUMANITIES**

19OFA1 Export – Import Practices  
 19OFA2 Insurance - Concepts and Practices  
 19OFA3 Public Finance  
 19OFA4 Public Finance and Taxation

**Summary of Credit Distribution**

B.TECH INFORMATION TECHNOLOGY										
S. No	Course Category	Credits Per Semester								Total Credits
		1	2	3	4	5	6	7	8	
1	HS	3	2	3	0	0	0	0	0	8
2	BS	9	9	4	4	0	0	0	0	26
3	ES	10	10	4	0	0	0	0	0	24
4	PC	0	0	13	18	18	13	6	0	68
5	PE	0	0	0	0	3	3	6	6	18
6	OE	0	0	0	0	0	3	3	0	6
7	EEC	0	0+2 <sup>£</sup>	0	1	1	3	4	4	15
8	MC	-	-	-	-	-	-	-	-	-
	<b>TOTAL</b>	<b>22</b>	<b>21+2<sup>£</sup></b>	<b>24</b>	<b>23</b>	<b>22</b>	<b>22</b>	<b>19</b>	<b>10</b>	<b>165</b>

£ Summer Term Course(s)

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