



**School of Engineering & Technology**  
**B. Tech Computer Science & Business Systems**

**Credit Definition**

Type	Duration (in Hour)	Credit
Lecture (L)	1	1
Tutorial (T)	1	1
Practical (P)	2	1

**Total Credit**

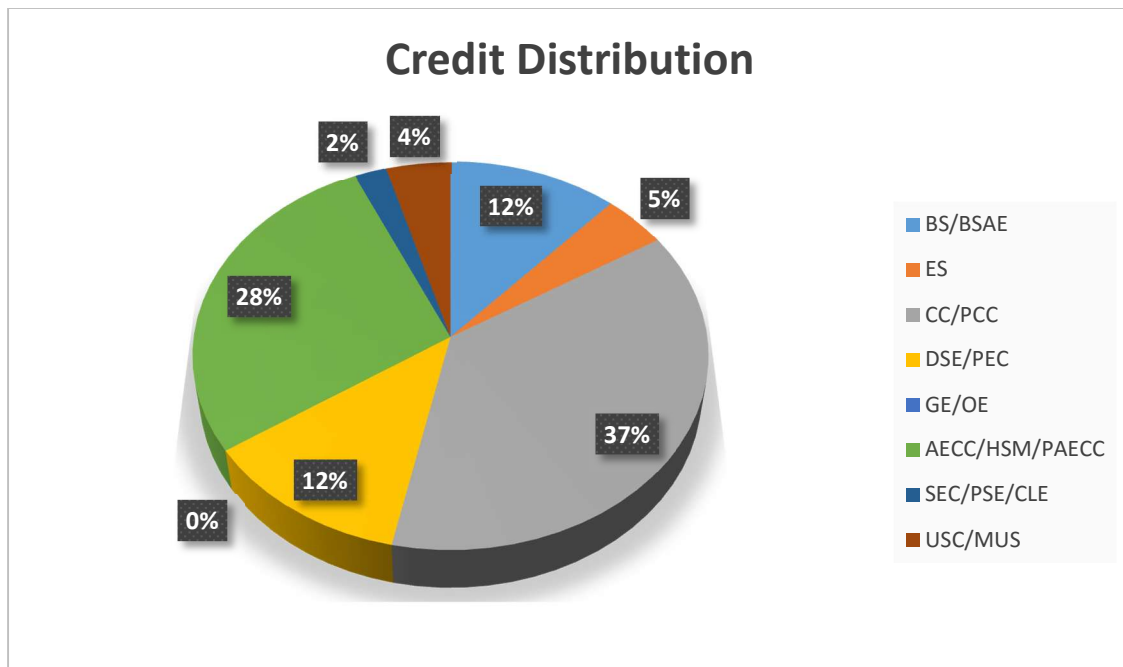
Year	Semester	hrs./Week	Credit
1 <sup>st</sup>	1 <sup>st</sup>	26	24
	2 <sup>nd</sup>	26	24
2 <sup>nd</sup>	3 <sup>rd</sup>	29	24
	4 <sup>th</sup>	26	24
3 <sup>rd</sup>	5 <sup>th</sup>	30	23
	6 <sup>th</sup>	26	23
4 <sup>th</sup>	7 <sup>th</sup>	24	19
	8 <sup>th</sup>	23	19
<b>Total</b>			<b>180</b>

**Category Codification with Credit Break up**

Definition of Category	Category	No	Credit
Basic Science	BS/BS AE	1	21
Engineering Science	ES	2	8
Professional Core	CC/PC C	3	67
Professional Elective (Discipline Specific)	DSE/P EC	4	22
Open Elective (General Elective)	GE/O E	5	0
Humanities & Social Science including Management	AECC /HSM/ PAEC C	6	50
Project Work / Seminar / Internship / Entrepreneurship	SEC/P SE/CL E	7	4
Mandatory / University Specified (Environmental Sc. / Induction Training / Indian Constitution / Foreign language)	USC/ MUS	8	8
<b>Total</b>			<b>180</b>

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### Category wise Credit Distribution





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**SEMESTER: I**

**Mandatory Induction Program – Duration 3 weeks**

- |  |
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| <ul style="list-style-type: none"> <li>• Physical Activity</li> <li>• Creative Arts</li> <li>• Universal Human Values</li> <li>• Literary</li> <li>• Proficiency Modules</li> <li>• Lectures by Eminent People</li> <li>• Visits to Local Areas</li> <li>• Familiarization to Department/Branch &amp; Innovations</li> </ul> |
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Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Discrete Mathematics	7000021101	3	3	0	0
2	Probability & Statistics	7000021102	3	3	0	0
3	Fundamentals of Computer Science	1000021101	3	3	0	0
4	Principles of Electrical Engineering	8000021101	3	3	0	0
5	Fundamentals of Physics	7000021103	3	3	0	0
6	Business Communication & Value Science - I	4000021101	4	3	0	0
7	Fundamentals of Computer Science Lab	1000021201	1	0	0	2
8	Principles of Electrical Engineering Lab	8000021201	1	0	0	2
9	Fundamentals of Physics Lab	7000021201	1	0	0	2
10	Foreign Language - I	6000021101	2	2	0	0
<b>Total Credit (L:20, T: 0, P: 6)</b>			<b>24</b>	<b>26 (hrs./Week)</b>		



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**SEMESTER: II**

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Linear Algebra	7000022104	4	4	0	0
2	Statistical Modeling	7000022105	3	3	0	0
3	Data Structures & Algorithms	1000022102	3	3	0	0
4	Principles of Electronics	8000022102	3	3	0	0
5	Fundamentals of Economics	4000022102	2	2	0	0
6	Business Communication & Value Science – II	4000022103	4	3	0	0
7	Statistical Modeling Lab	7000022202	1	0	0	2
8	Data Structures & Algorithms Lab	1000022202	1	0	0	2
9	Principles of Electronics Lab	8000022202	1	0	0	2
10	Foreign Language - II	6000022102	2	2	0	0
<b>Total Credit (L:20, T: 0, P: 6)</b>			<b>24</b>	<b>26 (hrs./Week)</b>		

**SEMESTER: III**

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Formal Language and Automata Theory	1000023103	4	4	0	0
2	Computer Organization and Architecture	1000023104	3	3	0	0
3	Object Oriented Programming	1000023105	3	3	0	0
4	Computational Statistics	1000023106	3	3	0	0
5	Software Engineering	1000023107	4	4	0	0
6	Formal Language and Automata Theory Lab	1000023203	1	0	0	2
7	Computer Organization and Architecture Lab	1000023204	1	0	0	2
8	Object Oriented Programming Lab	1000023205	1	0	0	2
9	Computational Statistics Lab	1000023206	1	0	0	2
10	Software Engineering Lab	1000023207	1	0	0	2
11	Foreign Language - III	6000023103	2	2	0	0
<b>Total Credit (L: 19, T: 0, P: 10)</b>			<b>24</b>	<b>29 ( hrs./Week)</b>		



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**SEMESTER: IV**

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Operating Systems	1000024108	3	3	0	0
2	Database Management System	1000024109	3	3	0	0
3	Software Design with UML	1000024110	3	3	0	0
4	Introduction to Innovation, IP Management & Entrepreneurship	4000024104	3	3	0	0
5	Business Communication & Value Science – III	4000024105	4	2	0	0
6	Operations Research	7000024106	2	2	0	0
7	Operating Systems Lab	1000024208	1	0	0	2
8	Database Management System Lab	1000024209	1	0	0	2
9	Software Design with UML Lab	1000024210	1	0	0	2
10	Operations Research Lab	7000024203	1	0	0	2
11	Foreign Language - IV	6000024104	2	2	0	0
<b>Total Credit (L: 18, T: 0, P: 8)</b>			<b>24</b>	<b>26 ( hrs./Week)</b>		

**SEMESTER: V**

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Design And Analysis of Algorithms	1000025111	3	3	0	0
2	Compiler Design	1000025112	3	3	0	0
3	Fundamentals of Management	4000025106	4	4	0	0
4	Business Strategy	4000025107	3	3	0	0
5	Design Thinking	4000025108	3	6	0	0
6	Elective I (Machine Learning)	2000025101	3	3	0	0
7	Mini Project	5000025501	1	0	0	2
8	Design And Analysis of Algorithms Lab	1000025211	1	0	0	2
9	Compiler Design Lab	1000025212	1	0	0	2
10	Elective I (Machine Learning) Lab	2000025201	1	0	0	2
<b>Total Credit (L: 22, T: 0, P: 8)</b>			<b>23</b>	<b>30 ( hrs./Week)</b>		

<b>Elective I (Open)</b>		
<b>Sl No.</b>	<b>Paper Code</b>	<b>Paper Name</b>
1.		Microprocessor and Microcontroller
2.		Analog and Digital Communication



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**SEMESTER: VI**

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Computer Networks	1000026113	3	3	0	0
2	Information Security	1000026114	3	3	0	0
3	Artificial Intelligence	1000026115	2	2	0	0
4	Financial & Cost Accounting	4000026109	3	3	0	0
5	Business Communication & Value Science – IV	4000026110	4	2	0	0
6	Elective II	2000026102	3	3	0	0
7	Computer Networks Lab	1000026213	1	0	0	2
8	Information Security Lab	1000026214	1	0	0	2
9	Artificial Intelligence Lab	1000026215	2	0	0	4
10	Elective II Lab	2000026202	1	0	0	2
<b>Total Credit (L: 16, T: 0, P: 10)</b>			<b>23</b>	<b>26 ( hrs./Week)</b>		

<b>Elective II (Open)</b>		
Sl No.	Paper Code	Paper Name
1.		Fuzzy Set Theory And Decision Making
2.		Robotics
<b>Elective – I (Professional)</b>		
Sl No.	Paper Code	Paper Name
3.		Digital Signal Processing
4.		Cryptography and Network Security
5.		Advanced Architecture
6.		Artificial Neural Network
<b>Elective – II (Professional)</b>		
7.		Digital Image Processing
8.		Embedded System
9.		Machine Learning



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**SEMESTER: VII**

SI No	Course Title	Code	Credit	Type		
				L	T	P
1	Usability Design of Software Applications	1000027116	3	3	0	0
2	Financial Management	4000027111	3	3	0	0
3	Human Resource Management	4000027112	3	3	0	0
4	Elective III	2000027103	3	3	0	0
5	Elective IV	2000027104	3	3	0	0
6	Project Evaluation I	5000027502	1	0	0	3
7	IT Workshop Skylab / Matlab (PCC-CS 302) Lab	1000027216	2	0	0	4
8	Elective IV Lab	2000027203	1	0	0	2
<b>Total Credit (L: 15, T: 0, P: 9)</b>			<b>19</b>	<b>24 ( hrs./Week)</b>		

Elective III (Open)		
SI No.	Paper Code	Paper Name
1.		Fibre Optic communication
2.		Cyber Law
3.		Web Technology
Elective – III (Professional)		
SI No.	Paper Code	Paper Name
4.		Bioinformatics
5.		Cloud Computing
6.		Data Mining
7.		Internet of Things
Elective – IV (Professional)		
8.		Soft Computing
9.		Natural Language Processing
10.		Distributed Database System



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**SEMESTER: VIII**

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Services Science & Service Operational Management	4000028113	3	3	0	0
2	IT Project Management	4000028114	3	3	0	0
3	Marketing Research & Marketing Management	4000028115	3	3	0	0
4	Elective V	2000028105	3	3	0	0
5	Elective VI	2000028106	3	3	0	0
6	Project Evaluation II	5000028503	2	0	0	4
7	IT Project Management Lab	4000028201	1	0	0	2
8	Elective VI Lab	2000028204	1	0	0	2
<b>Total Credit (L: 15, T: 0, P: 8)</b>			<b>19</b>	<b>23 ( hrs./Week)</b>		

<b>Elective IV (Open)</b>		
Sl No.	Paper Code	Paper Name
1.		Business Analytics/Design Thinking
2.		Satellite Communication
<b>Elective- V (Professional)</b>		
Sl No.	Paper Code	Paper Name
3.		Data Science
4.		Wireless and Sensor Network
5.		Mobile Computing
6.		Block Chain and Crypto Currency