

DEPARTMENT OF COMPUTER ENGINEERING  
Scheme Of B.Tech (COMPUTER ENGINEERING)

\*TAE will be based on Home Assignment, Seminar, Quiz, Surprise Test, Group Discussion, Debate, General Behaviour, Attentiveness and Attendance

**SEMESTER-III**

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme						Duration of Paper (Hrs.)
		Th.	Tu.	Pr.	Total		Theory			Practical		Total	
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass.	Ext.		
BAML204	Applied Mathematics III	3	1	-	4	4	20	20	60	-	-	100	3
BCOL201	Data Structures	3	1	-	4	4	20	20	60	-	-	100	3
BCOP201	Data Structures	-	-	4	4	2	-	-	-	25	25	50	3
BCOL202	Microprocessor Based Systems	3	1	-	4	4	20	20	60	-	-	100	3
BCOP202	Microprocessor Based Systems	-	-	2	2	1	-	-	-	25	-	25	-
BCOL203	Computer Architecture & Organization	4	-	-	4	4	20	20	60	-	-	100	3
BHUL201	Principles of Management	3	-	-	3	3	20	20	60	-	-	100	3
BCOP204	Hardware Maintenance and Trouble Shooting	-	-	2	2	1	-	-	-	25	-	25	-
BCOGP205	GENERAL PROFICIENCY:-II : Latex	1	-	2	3	Audit Course	-	-	-	-	-	-	-
	<b>Total</b>	<b>17</b>	<b>3</b>	<b>10</b>	<b>30</b>	<b>23</b>	<b>100</b>	<b>100</b>	<b>300</b>	<b>75</b>	<b>25</b>	<b>600</b>	

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**SEMESTER-IV**

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme					Duration of Paper (Hrs.)	
		Th.	Tu.	Pr.	Total		Theory			Practical			Total
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass.	Ext.		
BCOL206	Graph Theory & Combinatory	4	1	-	5	5	20	20	60	-	-	100	3
BCOL207	Theory of Computation	3	1	-	4	4	20	20	60	-	-	100	3
BCOL208	Operating system	4	-	-	4	4	20	20	60	-	-	100	3
BCOP208	Shell Programming	-	-	4	4	2	-	-	-	25	-	25	-
BITL202	Object Oriented Programming	3	1	-	4	4	20	20	60	-	-	100	3
BITP202	Object Oriented Programming	-	-	2	2	1	-	-	-	25	25	50	3
BCOL209	Data Communication	3	-	-	3	3	20	20	60	-	-	100	3
BCOP209	Data Communication	-	-	2	2	1	-	-	-	25	-	25	-
BCOGP210	GENERAL PROFICIENCY-III : Hobby classes	.	-	2	2	Audit Course	-	-	-	-	-	-	-
	<b>Total</b>	<b>17</b>	<b>3</b>	<b>10</b>	<b>30</b>	<b>24</b>	<b>100</b>	<b>100</b>	<b>300</b>	<b>75</b>	<b>25</b>	<b>600</b>	

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**SEMESTER-V**

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme						Duration of Paper (Hrs)
		Th.	Tu	Pr.	Total		Theory			Practical		Total	
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass.	Ext.		
BCOL301	Database Management Systems	3	1		4	4	20	20	60	-	-	100	3
BCOP301	Database Management Systems	-	-	4	4	2	-	-	-	25	25	50	3
BCOL302	Design & Analysis of Algorithm	4	-	-	4	4	20	20	60	-	-	100	3
BCOP302	Design & Analysis of Algorithm	-	-	2	2	1	-	-	-	25	25	50	3
BCOL303	Principles of Programming Languages	4	-	-	4	4	20	20	60	-	-	100	3
BCOL304	Computer Networks	3	1		4	4	20	20	60	-	-	100	3
BCOP304	Computer Networks	-	-	2	2	1	-	-	-	25	25	50	3
BCOL305	Software Engineering & Project Management	3	-	-	3	3	20	20	60	-	-	100	3
BCOGP306	GENERAL PROFICIENCY-IV (Advanced Communication Skill)	2	-	-	2	Audit Course	-	-	-	-	-	-	--
	<b>Total</b>	<b>19</b>	<b>2</b>	<b>8</b>	<b>29</b>	<b>23</b>	<b>100</b>	<b>100</b>	<b>300</b>	<b>75</b>	<b>75</b>	<b>650</b>	<b>--</b>

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**SEMESTER-VI**

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme						Duration of Paper (Hrs)
		Th.	Tu	Pr.	Total		Theory			Practical		Total	
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass.	Ext.		
BCOL307	Language Processor	3	1	-	4	4	20	20	60	-	-	100	3
BCOP307	Language Processor	-	-	2	2	1	-	-	-	25	25	50	3
BCOL308	Data Mining & Warehousing Oriented Databases	3	1	-	4	4	20	20	60	-	-	100	3
BCOP308	Data Mining & Warehousing Oriented Databases	-	-	2	2	1	-	-	-	25	25	50	3
BCOL309	Parallel and Distributed Computing	4	-	-	4	4	20	20	60	-	-	100	3
XXXLXXX	Elective - I	3	-	-	3	3	20	20	60	-	-	100	3
XXXLXXX	Elective - II	3	-	-	3	3	20	20	60	-	-	100	3
BCOP310	Mini Project	-	-	4	4	2	-	-	-	50	-	50	--
BCOGP317	General Proficiency –V "Employability Skills & Technical Report Writing"		2	-	2	Audit Course	-	-	-	-	-	-	--
XXXLXXX	Open Elective	3	-	-	3	3	20	20	60	-	-	100	--
	<b>Total</b>	<b>19</b>	<b>4</b>	<b>8</b>	<b>31</b>	<b>25</b>	<b>120</b>	<b>120</b>	<b>360</b>	<b>75</b>	<b>75</b>	<b>750</b>	

**ELECTIVE I:**

BCOL311- Pattern Recognition  
BENL413 - Wireless Communication  
BCOL312- Advanced Computer Architecture  
BCOL313- Computer Graphics And Visualisation  
BCOL314 - Software Architecture  
BXXLXX – Industry Offered

**ELECTIVE II :**

BCOL315 - Machine Learning  
BCOL316 - Mobile Computing  
BENL410 Embedded Systems  
BENL405- Digital Signal Processing  
BITL410 - Software Testing  
BXXLXX – Industry Offered

**OPEN ELECTIVES:**

S.N.	Code	Course Name
1	BAML301	Optimization Techniques
2	BCVL430	Environmental Science
3	BENL417	Sensors & Transducers
4	BENL430	Intellectual Patent Rights
5	BHUL414	Bio Systems in Engineering
6	BHUL415	Constitution of India
7	BMEL410	Nanotechnology
8	BMEL402	Unconventional Energy Sources
9	BMEL403	Reliability Engineering

S.N.	Code	Course Name
10	BMEL204	Material Science
11	BCOL413	Genetic Engineering
12	BENL300	Fuzzy Logic
13	BENL212	Principles of Business Management
14	BMEL210	Industrial and Resource Management
15	BCOL209	Project Management

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**SEMESTER-VII**

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme					Duration of Paper (Hrs)	
		Th.	Tu	Pr.	Total		Theory			Practical			Total
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass.	Ext.		
<b>BITL304</b>	<b>Computer System Security</b>	3	-	-	3	3	20	20	60	-	-	<b>100</b>	<b>3</b>
<b>BITP304</b>	<b>Computer System Security</b>	-	-	2	2	1	-	-	-	25	25	<b>50</b>	<b>3</b>
<b>BCOL401</b>	<b>Artificial Intelligence &amp; Expert Systems</b>	3	-	-	3	3	20	20	60	-	-	<b>100</b>	<b>3</b>
<b>BCOL402</b>	<b>Data Science</b>	3	-	-	3	3	20	20	60	-	-	<b>100</b>	<b>3</b>
<b>XXXLXXX</b>	<b>Elective III</b>	3	-	-	3	3	20	20	60	-	-	<b>100</b>	<b>3</b>
<b>XXXLXXX</b>	<b>Elective IV</b>	3	-	-	3	3	20	20	60	-	-	<b>100</b>	<b>3</b>
<b>BCOGP410</b>	<b>General Proficiency – VI Research Methodology Workshop</b>	2	-		2	Audit Course	-	-	-	-	-	-	--
<b>BCOP409</b>	<b>Project</b>	-	-	8	8	8	-	-	-	100	150	<b>250</b>	--
	<b>Total</b>	<b>17</b>	<b>-</b>	<b>10</b>	<b>27</b>	<b>24</b>	<b>100</b>	<b>100</b>	<b>300</b>	<b>125</b>	<b>75</b>	<b>650</b>	

<p><b>ELECTIVE III:</b>            BCOL403 - Soft Computing            BENL428 - Wireless Sensor Network            BENL425 - Real Time Operating System            BENL409 - Digital Image Processing            BITL307 - Scripting Languages            BXXLXX – Industry Offered</p>	<p><b>ELECTIVE-IV</b>            BCOL404 - Bio Informatics            BCOL405 - Cloud Computing            BCOL406 - Mobile Operating System            BCOL407- Game Theory            BCOL408 - E-COMMERCE            BXXLXX – Industry Offered</p>
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**SEMESTER-VIII**

Sub. Code	Name of the Course	Teaching Scheme				Credits	Evaluation Scheme					Duration of Paper (Hrs)	
		Th.	Tu	Pr.	Total		Theory			Practical			Total
							(TAE) (20)	(CAE) (20)	ESE (60)	Cont. Ass	Ext.		
BCOP411	Industry Internship	-	-	16	16	16	-	-	-	100	150	250	-
BCOP412	Self-Study	-	-	-	-	2	50	-	-		-	50	--
	<b>Total</b>			<b>16</b>	<b>16</b>	<b>18</b>	<b>50</b>			<b>100</b>	<b>150</b>	<b>300</b>	