

**B.Tech (Computer Science and Engineering with Open Specialization) curricular structure and evaluation scheme w.e.f 2017-18**

**Semester: I**

COURSE MODULE				TEACHING PERIODS			WEIGHTAGE : EVALUATION			
Physics Group										
COURSE			Credits	L	T	P	C WA	MSE	ESE	Total
Code	Title	Component								
THU101	Professional Communication	FC	3	3	-	-	25	25	50	100
TPH101	Engineering Physics	FC	3	3	-	-	25	25	50	100
TMA101	Engineering Mathematics-I	FC	4	3	1	-	25	25	50	100
TEE101	Basic Electrical Engineering	FC	4	3	1	-	25	25	50	100
TME101	Basic Mechanical Engineering	FC	4	3	1	-	25	25	50	100
TCS101	Fundamental of Computer & Introduction of 'C' Programming	FC	3	3	-	-	25	25	50	100
THF101	Healthy Living & Fitness	HF	1	1	-	-	-	-	25	25
PPH151	Physics Lab	FC	1	-	-	2	25	25	50	100
PEE151	Basic Electrical Engineering Lab.	FC	1	-	-	2	25	25	50	100
PME151	Workshop	FC	2	-	-	3	25	25	50	100
PCS151	Computer Lab-I	FC	2	-	-	4	25	25	50	100
GP101	General Proficiency	GP	1	-	-	-	-	-	100	100
SGP151	Seminar	SM	1	-	-	2	-	-	100	100
	<b>Total</b>		<b>30</b>	<b>19</b>	<b>3</b>	<b>13</b>				<b>1225</b>

COURSE MODULE				TEACHING PERIODS			WEIGHTAGE : EVALUATION			
Chemistry Group										
COURSE			Credits	L	T	P	C WA	MSE	ESE	Total
Code	Title	Component								
THU101	Professional Communication	FC	3	3	-	-	25	25	50	100
TCH101	Engineering Chemistry	FC	3	3	-	-	25	25	50	100
TMA101	Engineering Mathematics-I	FC	4	3	1	-	25	25	50	100
TEC101	Basic Electronics Engineering	FC	4	3	1	-	25	25	50	100
TME102	Engineering Mechanics	FC	4	3	1	-	25	25	50	100
TEV101	Environmental Science	EV	3	3	-	-	25	25	50	100
TCS101	Fundamental of Computer & Introduction of 'C' Programming	FC	3	3	-	-	25	25	50	100
PCH151	Chemistry Lab	FC	1	-	-	2	25	25	50	100
PME153	Computer Aided Engg. Graphics Lab.	FC	3	2	-	2	25	25	50	100
PCS151	Computer Lab - I	FC	2	-	-	4	25	25	50	100
PEC151	Basic Electronics Engineering Lab.	FC	1	-	-	2	25	25	50	100
GP101	General Proficiency	GP	1	-	-	-	-	-	100	100
	<b>Total</b>		<b>32</b>	<b>23</b>	<b>3</b>	<b>10</b>				<b>1200</b>

**SEMESTER II**

COURSE MODULE				TEACHING PERIODS			WEIGHTAGE : EVALUATION			
Physics Group										
COURSE			Credits	L	T	P	C WA	MSE	ESE	Total
Code	Title	Component								
THU201	Advanced Professional Communication	FC	3	3	-	-	25	25	50	100
TPH201	Engineering Physics	FC	3	3	-	-	25	25	50	100
TMA201	Engineering Mathematics-II	FC	4	3	1	-	25	25	50	100
TEE201	Basic Electrical Engineering	FC	4	3	1	-	25	25	50	100
TME201	Basic Mechanical Engineering	FC	4	3	1	-	25	25	50	100
TCS201	Programming in C	FC	3	3	-	-	25	25	50	100
THF201	Healthy Living & Fitness	HF	1	1	-	-	-	-	25	25
PPH251	Physics Lab	FC	1	-	-	2	25	25	50	100
PEE201	Basic Electrical Engineering Lab.	FC	1	-	-	2	25	25	50	100
PME251	Workshop	FC	2	-	-	3	25	25	50	100
PCS251	Computer Lab-II	FC	2	-	-	4	25	25	50	100
GP201	General Proficiency	GP	1	-	-	-	-	-	100	100
SGP251	Seminar	SM	1	-	-	2	-	-	100	100
	<b>Total</b>		<b>30</b>	<b>19</b>	<b>3</b>	<b>13</b>				<b>1225</b>

COURSE MODULE (Chemistry Group)				TEACHING PERIODS			WEIGHTAGE : EVALUATION			
Chemistry Group										
COURSE			Credits	L	T	P	C WA	MSE	ESE	Total
Code	Title	Component								
THU201	Advanced Professional Communication	FC	3	3	-	-	25	25	50	100
TCH201	Engineering Chemistry	FC	3	3	-	-	25	25	50	100
TMA201	Engineering Mathematics-II	FC	4	3	1	-	25	25	50	100
TEC201	Basic Electronics Engineering	FC	4	3	1	-	25	25	50	100
TME202	Engineering Mechanics	FC	4	3	1	-	25	25	50	100
TEV201	Environmental Science	EV	3	3	-	-	25	25	50	100
TCS201	Programming in C	FC	3	3	-	-	25	25	50	100
PCH251	Chemistry Lab	FC	1	-	-	2	25	25	50	100
PME253	Computer Aided Engg. Graphics Lab.	FC	3	2	-	2	25	25	50	100
PCS251	Computer Lab - II	FC	2	-	-	4	25	25	50	100
PEC251	Basic Electronics Engineering Lab.	FC	1	-	-	2	25	25	50	100
GP201	General Proficiency	GP	1	-	-	-	-	-	100	100
	<b>Total</b>		<b>32</b>	<b>23</b>	<b>3</b>	<b>10</b>				

**SEMESTER: III**

COURSE MODULE				TEACHING PERIODS			WEIGHTAGE : EVALUATION			
COURSE			Credits	L	T	P	C WA	MSE	ESE	Total
Code	Title	Component								
TCS-301	Logic Design	CC	3	3	-	-	25	25	50	100
TCS-302	Data Structures with C	CC	3	3	-	-	25	25	50	100
TCS-307	Object Oriented Programming with C++	CC	3	3	-	-	25	25	50	100
TMA-305	Graph Theory and Combinatorics	CC	4	3	1	-	25	25	50	100
TMA-306	Discrete Mathematical Structures	CC	4	3	1	-	25	25	50	100
PCS-301	Logic Design Lab	CC	2	1	-	2	25	25	50	100
PCS-302	Data Structures Lab	CC	2	1	-	2	25	25	50	100
PCS-307	OOPS with C++ Lab	CC	2	1	-	2	25	25	50	100
XCS-301	Career Skills	CK	2	2	-	-	25	25	50	100
CSP-301	Mini Project	PJ	1	-	-	-	-	-	100	100
GP-301	General Proficiency	GP	1	-	-	-	-	-	100	100
	<b>Total</b>		<b>27</b>	<b>20</b>	<b>2</b>	<b>6</b>				<b>1100</b>

**SEMESTER: IV**

COURSE MODULE				TEACHING PERIODS			WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P	C WA	MSE	ESE	Total
Code	Title	Component								
TMA-402	Computer Based Numerical and Statistical Technique	CC	3	3	-	-	25	25	50	100
TCS-402	Finite Automata and Formal Languages	CC	4	3	1	-	25	25	50	100
TCS-403	Microprocessors	CC	3	3	-	-	25	25	50	100
TCS-404	Computer Organization	CC	4	3	1	-	25	25	50	100
TCS-408	Java Programming Language	CC	3	3	-	-	25	25	50	100
TCS-451/TCS-452	Virtualization and Cloud Computing OR Business Intelligence	CC	3	3	-	-	25	25	50	100
PMA-402	CBNST Lab	CC	2	1	-	2	25	25	50	100
PCS-403	Microprocessors Lab	CC	2	1	-	2	25	25	50	100
PCS-408	Java Programming Lab	CC	2	1	-	2	25	25	50	100
XCS-401	Career Skills	CK	2	2	-	-	25	25	50	100
CSP-401	Mini Project	PJ	1	-	-	-	-	-	100	100
GP- 401	General Proficiency	GP	1	-	-	-	-	-	100	100
	<b>Total</b>		<b>30</b>	<b>23</b>	<b>2</b>	<b>6</b>				<b>1200</b>

## SEMESTER: V

COURSE MODULE				TEACHING PERIODS			WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P	C WA	MSE	ESE	Total
Code	Title	Component								
TCS-501	System Software	CC	4	3	1	-	25	25	50	100
TCS-502	Operating Systems	CC	3	3	-	-	25	25	50	100
TCS-503	Data Base Management Systems	CC	3	3	-	-	25	25	50	100
TCS-505	Design and Analysis of Algorithms	CC	3	3	-	-	25	25	50	100
TCS-551/TCS-552	Bigdata Storage and Processing OR Cloud Based Application Development and Management	CC	3	3	-	-	25	25	50	100
PCS-506	Operating Systems Lab +Unix	CC	2	1	-	2	25	25	50	100
PCS-503	DBMS Lab	CC	2	1	-	2	25	25	50	100
PCS-505	DAA Lab	CC	2	1	-	2	25	25	50	100
PCS-551/PCS-552	Bigdata Storage and Processing OR Cloud Based Application Development and Management	CC	2	1	-	2	25	25	50	100
XCS-501	Career Skills	CK	2	2	-	-	25	25	50	100
CSP-501	Mini Project	PJ	1	-	-	-	-	-	100	100
GP-501	General Proficiency	GP	1	-	-	-	-	-	100	100
	<b>Total</b>		<b>28</b>	<b>21</b>	<b>1</b>	<b>8</b>				<b>1200</b>

## SEMESTER: VI

COURSE MODULE				TEACHING PERIODS			WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P	C WA	MSE	ESE	Total
Code	Title	Component								
TCS-601	Compiler Design	CC	3	3	-	-	25	25	50	100
TCS-602	Software Engineering	CC	4	3	1	-	25	25	50	100
TCS-604	Computer Networks-I	CC	3	3	-	-	25	25	50	100
TCS-693	Full Stack Web Development	CC	3	3	-	-	25	25	50	100
TCS-691/TCS-692	Image Processing and Computer Vision OR IoT	CC	3	3	-	-	25	25	50	100
TCS-608	Object Oriented Analysis and Design	CC	4	3	1	-	25	25	50	100
PCS-601	Compiler Design Lab	CC	2	1	-	2	25	25	50	100
PCS-693	Web Development Lab	CC	2	1	-	2	25	25	50	100
PCS-691	Image processing OR IoT Lab	CC	2	1	-	2	25	25	50	100
XCS-601	Career Skills	CK	2	2	-	-	25	25	50	100
CSP-601	Mini Project	PJ	1	-	-	-	-	-	100	100
GP-601	General Proficiency	GP	1	-	-	-	-	-	100	100
	<b>Total</b>		<b>30</b>	<b>23</b>	<b>2</b>	<b>6</b>				<b>1200</b>

**SEMESTER: VII**

COURSE MODULE				TEACHING PERIODS			WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P	C W	MSE	ESE	Total
Code	Title	Component								
TIT-704	Cryptography and Network Security	CC	3	3	-	-	25	25	50	100
TCS-703	Computer Networks-II	CC	3	3	-	-	25	25	50	100
TCS-704	Advanced Computer Architecture	CC	3	3	-	-	25	25	50	100
TCS-706	Artificial Intelligence	CC	3	3	-	-	25	25	50	100
	Elective-I	DE/IE	3	3	-	-	25	25	50	100
PCS-707	OOAD & CN Lab	CC	2	1	-	2	25	25	50	100
PCS-709	ACA & AI Lab	CC	2	1	-	2	25	25	50	100
SCS-701	Seminar on Industrial Interaction	SM	2	-	-	-	-	-	100	100
CSP-701	Major Project- Phase 1	PJ	2	-	-	-	-	-	100	100
GP-701	General Proficiency	GP	1	-	-	-	-	-	100	100
	<b>Total</b>		<b>24</b>	<b>17</b>	<b>-</b>	<b>4</b>				<b>1000</b>

**SEMESTER: VIII**

COURSE DETAILS				TEACHING PERIODS			WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P	C W	MSE	ESE	Total
Course	Title	Component								
TCS-801	Distributed Systems	CC	3	3	-	-	25	25	50	100
TCS-802	Mobile Computing	CC	3	3	-	-	25	25	50	100
TDM-881	Disaster Management	DM	2	2	-	-	25	25	50	100
	Elective-II	DE/IE	3	3	-	-	25	25	50	100
CSC-801	Comprehensive Viva-Voce	CM	2	-	-	-	-	-	100	100
SCS 801	Seminar	SM	2	-	-	-	-	-	100	100
CSP-801	Project Phase-II	PJ	4	-	-	-	-	-	100	100
GP-801	General Proficiency	GP	1	-	-	-	-	-	100	100
	<b>Total</b>		<b>20</b>	<b>11</b>	<b>-</b>	<b>-</b>				<b>800</b>