



Chhattisgarh Swami Vivekanand Technical University, Bhilai (CG)

Scheme for B. Tech. First Semester (Data Science 3110)

S.No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Assessment/assignment hours per week	Teaching Hours/sem
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1.	Applied Mathematics	Engineering Mathematics-1	3000A02AT014	BFC-BSC	3	1		100	20	20	140	4	1	60
2.	Applied Physics	Engineering Physics (Circuit)	3000A03AT015	BFC-BSC	3	-	-	100	20	20	140	3	1	45
3.	Electrical Engineering	Basic Electrical Engineering	3000A05AT024	BFC-ESC	3	-	-	100	20	20	140	3	1	45
4.	Computer Science Engineering	Python for Problem Solving & Logic Building	3022A01CT022	SBS-PCC	3	1	-	100	20	20	140	4	1	60
5.	Humanities	Professional Communication Skills	3000A05DT046	AEC-HSM C	2		-	50	10	10	70	2	1	30
6.	Humanities	Foundation course on Ancient Indian Knowledge System	3000A06ET046	IKS	2	-	-	50	10	10	70	2	1	30
7.	Computer Science Engineering	Fundamentals of Computer & IT Lab	3000A02CL022	SBS-ESC	-	-	4	40	-	20	60	2	1	60
8.	Computer Science Engineering	Python for Problem Solving & Logic Building (Lab)	3022A01CL022	SBS-PCC	-	-	2	40	-	20	60	1	-	30
9.	Applied Physics	Engineering Physics Lab (Circuit)	3000A03AL015	BFC-BSC	-	-	2	40	-	20	60	1	-	30
10.	Electrical Engineering	Basic Electrical Engineering Lab	3000A04AL024	BFC-ESC	-	-	2	40	-	20	60	1	-	30
11.	Humanities	Sports & Yoga	3000A06FL046	VAC-MNC AU	-	-	2	-	-	30	30	-	-	30
12.	Humanities	Social Service/Community Services	3000A07FL046	VAC-MNC AU			2	-	-	30	30	-	-	30
13.		Library				1								15
Total					16	3	14	660	100	240	1000	23	105	495
Total Learning Hours/Semester													600	

L-Lecture, P-Practical, ESE-End semester Exam, CT-Class Test, TA-Teacher's Assessment

Note: Abbreviations of Course category

BFC- Basics Foundation Course

SBS- Skilled Based Subject (Branch Specific)

IKS- Indian Knowledge System

AEC- Ability Enhancement Course

VAC- Value Added Course

BSC- Basic Science Courses

ESC- Engineering Science Courses

PCC- Professional Core Courses

HSMC- Humanities, Social Sciences & Management Courses

MNC AU-Mandatory Non Credit Courses – Audit Course



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Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Assessment/assignment hours per week	Teaching Hours
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1.	Applied Mathematics	Engineering Mathematics-II	3000B02AT014	BFC-BSC	3	1	-	100	20	20	140	4	2	60
2.	CSE	Computer Networking & Security Surveillance	3022B01CT022	SBS-PCC	3	-	-	100	20	20	140	3	2	45
3.	Applied Chemistry	Environmental Chemistry	3000B03AT011	BFC-BSC	3	-	-	100	20	20	140	3	2	45
4.	Computer Science Engineering	Concepts of Programming Language	3000B04AT022	BFC-ESC	3	-	-	100	20	20	140	3	1	45
5.	Humanities	Indian Culture and Constitution	3000B05ET046	IKS	2	-	-	50	10	10	70	2	1	30
6.	Management	Cyber Law and Ethics	3000B09FT076	VAC	1	-	-	50	10	10	70	1	1	15
7.	Computer Science Engineering	Concepts of Programming Language (Lab)	3000B02AL022	BFC-ESC	-	-	2	40	-	20	60	1	1	30
8.	Mechanical Engineering	Engineering Graphics (Lab)	3000B03AL037	BFC-BSC	-	-	4	40	-	20	60	2	1	60
9.	Applied Chemistry	Environmental Chemistry (Lab)	3000B04AL011	BFC-BSC	-	-	2	40	-	20	60	1	-	30
10.	CSE	Computer Networking & Security Surveillance (Lab)	3022B01CL022	SBS-PCC	-	-	2	40	-	20	60	1	-	30
11.	Humanities	Value Education	3000B07FT046	VAC-MNCAU	1	-	-	-	-	30	30	-	-	15
12.	Civil Engineering	Civil Engg-Societal and Global Impact	3000B08FT020	VAC-MNCAU	1	-	-	-	-	30	30	-	-	15
13.		Library				1								15
Total					17	2	10	660	100	240	1000	21	165	435
Total Learning Hours/semester													600	

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CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI (C.G.)

Scheme of Teaching and Examination

Scheme for B.Tech Third Semester (Computer Science and Engineering (Data Sciences)-3110)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Teaching Hours/sem	Assessment hours/sem (Assignment/ Practical file)
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1	Applied Mathematics	Discrete Mathematics	3022C01AT014	BFS-BSC	2	1	-	100	20	20	140	3	45	15
2	Computer Science Engineering	Operating System	3022C02BT022	PCC	2	1	-	100	20	20	140	3	45	15
3	Computer Science Engineering	Digital Electronics and Logic Design	3022C03BT022	PCC	2	1	-	100	20	20	140	3	45	15
4	Computer Science Engineering	Object oriented Programming with Java	3109C04CT022	SBS-PCC	2	1	-	100	20	20	140	3	45	15
5	Computer Science Engineering	Web Development	3022C05CT022	SBS-PCC	2	1	-	100	20	20	140	3	45	15
6	Humanities	Life Concept by Bhagwat Gita	3000C06ET046	IKS	2	-	-	100	20	20	140	2	30	15
7	Computer Science Engineering	Operating System Lab	3110C01BL022	PCC	-	-	2	40	-	20	60	1	30	15
8	Computer Science Engineering	Object oriented Programming with Java lab	3110C02BL022	PCC	-	-	2	40	-	20	60	1	30	15
9	Computer Science Engineering	Web Development lab	3110C03CL022	SBS-PCC	-	-	2	40	-	20	60	1	30	15
10	Computer Science Engineering	Idea Innovation Lab	3110C04FL022	VAC		-	2	-	-	40	40	1	30	15
11	Management	Personality Development	3000C07DT076	AEC-MNC AU	1		2			40	40	-	45	15
12		Library				1		-	-	-	-	-	15	-
Total					13	6	10	720	120	260	1100	21	435	165
Total Learning Hours/Semester													600	

L- Lecture, P- Practical, ESE- End Semester Exam, CT- Class Test, TA- Teacher Assessment

Note: Abbreviations of Course category

BFS Basics Foundation Subject

BSC Basic Science Courses

PCC Professional Core Courses

VAC Value Added Course

SBS Skilled Based Subject (Branch Specific)

IKS Indian Knowledge System

AEC Ability Enhancement Course

MNC AU Mandatory Non Credit Courses – Audit Course



CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI (C.G.)

Scheme of Teaching and Examination

Scheme for B.Tech Fourth Semester (Computer Science and Engineering (Data Sciences)-3110)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Course Category	Period per Week			Scheme of Examination			Total Marks	Credits	Teaching Hours	Assessment hours/sem (Assignment /Practical file)
					L	T	P	Theory/Lab						
								ESE	CT	TA				
1	Applied Mathematics	Probability and Statistics for AI & DS	3109D01BT014	PCC	3	1	-	100	20	20	140	4	60	15
2	Computer Science Engineering	Data Structures	3022D02BT022	PCC	3	1	-	100	20	20	140	4	60	15
3	Computer Science Engineering	Database Management Systems	3022D03BT022	PCC	3	1	-	100	20	20	140	4	60	15
4	Computer Science Engineering	Computer Organization and Architecture	3109D04CT022	SBS-PCC	2	1	-	100	20	20	140	3	45	15
5	Computer Science Engineering	Data and Visual Analytics in AI&DS	3109D05BT022	PCC	1	1		100	20	20	140	2	30	15
6	Humanities	Indian Traditional Knowledge: Science & Practices	3000D06ET046	IKS	2	-	-	50	10	10	70	2	30	10
7	Computer Science Engineering	Data and Visual Analytics in AI&DS Lab	3110D01BL022	PCC	-	-	2	40	-	20	60	1	30	10
8	Computer Science Engineering	Data Structures Lab	3110D02BL022	PCC	-	-	2	40	-	20	60	1	30	10
9	Computer Science Engineering	Database Management System Lab	3110D03BL022	PCC	-	-	2	40	-	20	60	1	30	10
10	Computer Science Engineering	Computer Organization and Architecture Lab	3110D04CL022	SBS-PCC	-	-	2	40	-	20	60	1	30	10
11	Management	Entrepreneurship Development and Startups	3000D07DT076	AEC-MNC AU	2		-	-	-	50	50	-	30	10
12	Humanities	Emotional Intelligence and Social Learning	3000D08FT046	VAC-MNC AU	1					40	40		15	-
13		Library				1		-	-		-		15	-
Total					17	6	8	710	110	280	1100	23	465	135
Total Learning Hours/semester														600

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