Chhattisgarh Swami Vivekanand Technical University (CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Third Semester – Artificial Intelligence and Data Sciences)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Marks	Credit
				L	T	P	Theory/Lab				
							ESE	CT	TA		
1	Basic Science	Mathematics - III	B109311(014)	3	1	-	100	20	30	150	4
2	Computer Science Engg.	Data Structure & Algorithms	B109312(022)	3	1	-	100	20	30	150	4
3	Computer Science Engg.	Operating Systems	B109313(022)	2	1	-	100	20	30	150	3
4	Computer Science Engg.	Introduction to Python	B109314(022)	2	1	-	100	20	30	150	3
5	Computer Science Engg.	Digital Electronics & Logic Design	B109315(022)	2	1	-	100	20	30	150	3
6	Computer Science Engg.	Data Structure & Algorithms Laboratory	B109321(022)	-	-	2	40	-	20	60	1
7	Computer Science Engg.	Operating Systems Laboratory	B109322(022)	-	-	2	40	-	20	20	1
8	Computer Science Engg.	Digital Electronics & Logic Design Laboratory	B109323(022)	-	-	2	40	-	20	20	1
9	Computer Science Engg.	Python Laboratory	B109324(022)	-	-	2	40	-	20	20	1
10	Humanities	Personality Development	B000306(046)	-	-	2	-	-	10	10	-
Total Marks				**12**	**05**	**10**	**660**	**100**	**240**	**1000**	**21**

L – Lecturer, T – Tutorial, P – Practical, CT –Class Test, ESE – End Semester Exam, TA – Teacher's Assessment

Chhattisgarh Swami Vivekanand Technical University (CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Fourth Semester – Artificial Intelligence and Data Sciences)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Marks	Credit
							Theory/Lab				
				L	T	P	ESE	CT	TA		
1	Computer Science Engg.	Design & Analysis of Algorithms	B109411(022)	3	1	-	100	20	30	150	4
2	Computer Science Engg.	Database Management Systems	B109412(022)	3	1	-	100	20	30	150	4
3	Computer Science Engg.	Object-Oriented Programming (with Java)	B109413(022)	3	1	-	100	20	30	150	4
4	Computer Science Engg.	Computer System Architecture	B109414(022)	2	1	-	100	20	30	150	3
5	Computer Science Engg.	Discrete Structure	B109415(022)	2	0	-	100	20	30	150	2
6	Computer Science Engg.	Design & Analysis of Algorithms Using Python Laboratory	B109421(022)	-	-	2	40	-	20	60	1
7	Computer Science Engg.	Database Management Systems Laboratory	B109422(022)	-	-	2	40	-	20	20	1
8	Computer Science Engg.	Object-Oriented Programming Laboratory (with Java)	B109423(022)	-	-	2	40	-	20	20	1
9	Computer Science Engg.	Virtual Lab- PHP/MySQL	B109424(022)	-	-	2	40	-	20	20	1
10	Humanities	Indian Culture and Constitution of India	B000406(046)	-	-	2	-	-	10	10	-
Total Marks				**13**	**04**	**10**	**660**	**100**	**240**	**1000**	**21**

L – Lecturer, T – Tutorial, P – Practical, CT –Class Test, ESE – End Semester Exam, TA – Teacher's Assessment

Chhattisgarh Swami Vivekanand Technical University (CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Fifth Semester - Artificial Intelligence and Data Sciences)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Mark	Credit
							Theory/Lab				
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Artificial Intelligence	C109511(022)	3	1	-	100	20	30	150	4
2.	Computer Science Engg.	Introduction to Machine Learning	C109512(022)	3	1	-	100	20	30	150	4
3.	Computer Science Engg.	Theory of Computation	C109513(022)	3	1	-	100	20	30	150	4
4.	Computer Science Engg.	Statistical Thinking for Data Science	C117514(022)	2	1	-	100	20	30	150	3
5.	**Professional Elective–I *(Refer to Table–I)***			2	0	-	100	20	30	150	2
6.	Computer Science Engg.	Artificial Intelligence (Lab)	C117521(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Machine Learning (Lab)	C117522(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	Data Analytics Using R Programming (Lab)	C117523(022)	-	-	2	40	-	20	60	1
9.	Computer Science Engg.	Minor Project Phase–I	C117524(022)	-	-	2	40	-	20	60	1
10	Computer Science Engg.	Environmental Science	C117525(022)	-	-	2	-	-	10	10	-
Total Marks				**13**	**04**	**10**	**660**	**100**	**240**	**1000**	**21**

L – Lecturer, T – Tutorial, P – Practical , CT –Class Test, ESE – End Semester Exam, TA – Teacher's Assessment

Table-I (Professional Elective-I)

S.N.	Board of Studies	Course Code	Subject
1.	Computer Science Engg.	C109531(022)	Internet of Things (IoT)
2.	Computer Science Engg.	C117532(022)	Natural Language Processing
3.	Computer Science Engg.	C109533(022)	Data Visualization
4.	Computer Science Engg.	C113534(022)	Bio-Informatics

Note: (1) 1/4th of total strength of students subject to minimum of 20 students is required to offer and elective in the college in a particular academic session.

(2) Choice of elective course once made for an examination cannot be changed in future examinations.

Chhattisgarh Swami Vivekanand Technical University (CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATIO

B.Tech (Sixth Semester - Artificial Intelligence and Data Sciences)

Sl No.	Board of Studies (BOS)	Courses (Subject)	Course Code	Period per Week			Scheme of Examination			Total Mark	Credit
							Theory/Lab				
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Compiler Design	C109611(022)	3	1	-	100	20	30	150	4
2.	Computer Science Engg.	Computer Network	C109612(022)	3	1	-	100	20	30	150	4
3.	Computer Science Engg.	Software Engineering and Project Management	C109613(022)	2	1	-	100	20	30	150	4
4.	**Professional Elective–II *(Refer to Table–I)***			2	1	-	100	20	30	150	3
5.	**Open Elective–I *(Refer to Table–III)***			3	0	-	100	20	30	150	2
6.	Computer Science Engg.	Android (Lab)	C109621(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Computer Network (Lab)	C109622(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	Minor Project Phase-II	C109623(022)	-	-	2	40	-	20	60	1
9.	**Professional Elective–II (Lab) *(Refer to Table–III)***			-	-	2	40	-	20	60	1
10	Humanities	Technical Communication and Soft Skills	C000601(046)	-	-	2	-	-	10	10	-
Total Marks				**13**	**04**	**10**	**660**	**100**	**240**	**1000**	**21**

L – Lecturer, T – Tutorial, P – Practical , CT –Class Test, ESE – End Semester Exam, TA – Teacher's Assessment

Table-I (*Professional Elective-II*)

S.N.	Board of Studies	Course Code	Subject
1.	Computer Science Engg.	C109631(022)	Cloud Computing
2.	Computer Science Engg.	C109632(022)	Big Data Analytics using Hadoop
3.	Computer Science Engg.	C109633(022)	Soft Computing
4.	Computer Science Engg.	C109634(022)	Data Security and Privacy

Table-II (*Professional Elective-II Lab*)

S.N.	Board of Studies	Course Code	Subject
1.	Computer Science Engg.	C109624(022)	Cloud Computing (Lab)
2.	Computer Science Engg.	C109625(022)	Big Data Analytics using Hadoop (Lab)
3.	Computer Science Engg.	C109626(022)	Soft Computing (Lab)
4.	Computer Science Engg.	C109627(022)	Data Security and Privacy (Lab)

Note: (1) 1/4th of total strength of students subject to minimum of 20 students is required to offer and elective in the college in a particular academic session.

(2) Choice of elective course once made for an examination cannot be changed in future examinations.

Chhattisgarh Swami Vivekanand Technical University (CSVTU, NEWAI (C.G.))

B.Tech (Sixth Semester)

List of Open Elective–I (*Table–III*)

S.N.	Board of Studies	Course Code	Subject
1.	Computer Science Engg.	C000651(022)	Cryptography and Network Security
2.	Computer Science Engg.	C000652(022)	Data Warehousing and Mining
3.	Computer Science Engg.	C000653(022)	Network Programming
4.	Mathematics	C000654(014)	Operation Research
5.	Computer Science Engg.	C000655(022)	Decision Support and Executive Information System