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

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Third Semester – Cyber Security)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Period per Week			Scheme of Examination			Total Marks	Credit
							Theory/Lab				
				L	T	P	ESE	CT	TA		
1	Basic Science	Mathematical & Statistical Foundation	B131311(014)	3	1	-	100	20	30	150	4
2	Computer Science Engg.	Data Structures	B131312(022)	3	1	-	100	20	30	150	4
3	Computer Science Engg.	Digital Electronics & Logic Design	B131313(022)	2	1	-	100	20	30	150	3
4	Computer Science Engg.	Operating Systems	B131314(022)	2	1	-	100	20	30	150	3
5	Computer Science Engg.	Computer Organization & Architecture	B131315(022)	2	1	-	100	20	30	150	3
6	Computer Science Engg.	Data Structures Laboratory	B131321(022)	-	-	2	40	-	20	60	1
7	Computer Science Engg.	Digital Electronics& Logic Design Laboratory	B131322(022)	-	-	2	40	-	20	60	1
8	Computer Science Engg.	Operating Systems Laboratory (UNIX)	B131323(022)	-	-	2	40	-	20	60	1
9	Computer Science Engg.	Software Laboratory (Sci Lab/MATLAB)	B131324(022)	-	-	2	40	-	20	60	1
10	Humanities	Personality Development	B131325(022)	-	-	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 – Cyber Security)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Period per Week			Scheme of Examination			Total Marks	Credit
				L	T	P	Theory/Lab				
							ESE	CT	TA		
1	Computer Science Engg.	Database Management System	B131411(022)	3	1	-	100	20	30	150	4
2	Computer Science Engg.	Computer Networks	B131412(022)	3	1	-	100	20	30	150	4
3	Computer Science Engg.	Discrete Structure	B131413(022)	2	0	-	100	20	30	150	2
4	Computer Science Engg.	Principles of Cyber Security	B131414(022)	2	1	-	100	20	30	150	3
5	Computer Science Engg.	Object Oriented Programming (With Java)	B131415(022)	3	1	-	100	20	30	150	4
6	Computer Science Engg.	Database Management System (Lab)	B131421(022)	-	-	2	40	-	20	60	1
7	Computer Science Engg.	Computer Networks (Lab)	B131422(022)	-	-	2	40	-	20	60	1
8	Computer Science Engg.	Application and Network Cyber Security (Lab)	B131423(022)	-	-	2	40	-	20	60	1
9	Computer Science Engg.	Object Oriented Programming (With Java) (Lab)	B131424(022)	-	-	2	40	-	20	60	1
10	Humanities	Constitution of India	B000406(046)	-	-	2	-	-	10	10	0
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

Note:- Internship-I of four weeks to be completed after 4th semester exam and its evaluation to be done in 5th semester.

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

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Fifth Semester – Cyber Security)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject 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.	Theory of Computation	C109513(022)	3	1	-	100	20	30	150	4
3.	Computer Science Engg.	Design and Analysis of Algorithms	C131512(022)	3	1	-	100	20	30	150	4
4.	Computer Science Engg.	Introduction to Python	C131514(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)	C131521(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Python (Lab)	C131522(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	R Programming (Lab)	C131523(022)	-	-	2	40	-	20	60	1
9.	Computer Science Engg.	Project-I Based on Summer Internship/Industrial Training	C131524(022)	-	-	2	40	-	20	60	1
10.	Computer Science Engg.	Environmental Studies	C131525(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	Subject Code	Subject
1.	Computer Science Engg.	C131531(022)	Foundation of Ethical Hacking
2.	Computer Science Engg.	C131532(022)	Web Application Security
3.	Computer Science Engg.	C131533(022)	Multimedia and Virtual Reality
4.	Computer Science Engg.	C131534(022)	Soft Computing

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 EXAMINATION

B.Tech (Sixth Semester – Cyber Security)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject 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.	Software Engineering and Project Management	C109613(022)	3	1	-	100	20	30	150	4
3.	Computer Science Engg.	Cryptography and Network Security	C131612(022)	3	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)***			2	0	-	100	20	30	150	2
6.	Computer Science Engg.	Cryptography and Network Security (Lab)	C131621(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Android (Lab)	C131622(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	Minor Project Phase-II	C131623(022)	-	-	2	40	-	20	60	1
9.	***Professional Elective–II (Lab) (Refer to Table–II)***			-	-	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.	C131631(022)	Machine Learning
2.	Computer Science Engg.	C131632(022)	Network Management Systems and Operations
3.	Computer Science Engg.	C131633(022)	Linux Programming

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

S.N.	Board of Studies	Course Code	Subject
1.	Computer Science Engg.	C131624(022)	Machine Learning (Lab)
2.	Computer Science Engg.	C131625(022)	Network Monitoring using nMap Tool (Lab)
3.	Computer Science Engg.	C131626(022)	Linux Programming (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.))

SCHEME OF TEACHING ANDEXAMINATION

B.Tech (Seventh Semester – Cyber Security)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Period per Week			Scheme of Examination			Total Mark	Credit
							Theory/Lab				
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Quantum Cryptography	D131711(022)	2	1	-	100	20	30	150	3
2.	Computer Science Engg.	Cloud Security	D131712(022)	2	1	-	100	20	30	150	3
3.	Computer Science Engg.	Database Security	D131713(022)	3	1	-	100	20	30	150	4
4.	***Professional Elective – III (Refer to Table – I)***			1	1	-	100	20	30	150	2
5.	***Open Elective – II (Refer to Table – III)***			2	-	-	100	20	30	150	2
6.	Computer Science Engg.	Quantum Cryptography (Lab)	D131721(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Cloud Security (Lab)	D131722(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	Project Phase-I	D131723(022)	-	-	6	40	-	20	60	3
9.	Computer Science Engg.	Industrial Training	D131724(022)	-	-	2	40	-	20	60	1
10.	Humanities	Universal Human Values-II	D131725(046)	-	-	2	-	-	10	10	-
Total Marks				**10**	**04**	**14**	**660**	**100**	**240**	**1000**	**20**

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

Table - I (*Professional Elective - III*)

S.N.	Board of Studies	Subject Code	Subject
1.	Computer Science Engg.	D131731(022)	Cyber and Digital Forensics
2.	Computer Science Engg.	D131732(022)	Vulnerability Assessment and Penetration Testing
3.	Computer Science Engg.	D131733(022)	Information Security

Note: (1) 1/4th of total strength of student 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 EXAMINATION

B.Tech (Eight Semester – Cyber Security)

Sl. No.	Board of Studies (BOS)	Courses (Subject)	Subject Code	Period per Week			Scheme of Examination			Total Mark	Credit
							Theory/Lab				
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Block Chain in Cyber Security	D131811(022)	3	1	-	100	20	30	150	4
2.	**Professional Elective – IV *(Refer to Table – I)***			2	1	-	100	20	30	150	3
3.	**Open Elective – III *(Refer to Table – III)***			2	-	-	100	20	30	150	2
4.	Computer Science Engg.	Cyber Security Block Chain (Lab)	D131821(022)	-	-	2	40	-	20	60	1
5.	Computer Science Engg.	Advanced AI (Lab) /Linux (Lab)	D131822(022)	-	-	2	40	-	20	60	1
6.	Computer Science Engg.	Project Phase-II	D131823(022)	-	-	14	350	-	80	430	7
Total Marks				**07**	**02**	**18**	**730**	**60**	**210**	**1000**	**18**

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

Table – I (*Professional Elective – IV*)

S.N.	Board of Studies	Subject Code	Subject
1.	Computer Science Engg.	D131831(022)	Identity and Access Management
2.	Computer Science Engg.	D131832(022)	Biometric Security
3.	Computer Science Engg.	D131833(022)	Social Networks
4.	Computer Science Engg.	D131834(022)	Intrusion Detection and Prevention

Note: (1) 1/4th of total strength of student 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.