Chhattisgarh Swami VivekanandTechnical University (CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B Tech Honours (Artificial Intelligence) (First Semester)

S.N	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Electronics and Telecommunication	Foundations of Electronics Engineering	A000171(028)	2	1	-	100	20	20	140	3
2.	Basic Science	Engineering Mathematics-I	A000172(014)	2	1	-	100	20	20	140	3
3.	Computer Science Engineering	Learning Programming Concept with C	A000173(022)	2	1	-	100	20	20	140	3
4.	Basic Science	Fundamentals of Computational Biology	A000174(028)	2	1	-	100	20	20	140	3
5.	Civil Engineering	Environmental Science	A000175(020)	2	1	-	100	20	20	140	3
6.	Humanities	Professional Ethics and Life Skills	A000176(046)	2	-	-	50	20	20	90	2
7.	Humanities	Language & Writing Skills	A000177(046)	2	-	-	50	20	20	90	2
8.	Electronics and Telecommunication	Foundations of Electronics Engineering Lab	A000191(028)	-	-	2	40		20	60	1
9.	Computer Science Engineering	Learning Programming Concept with C Lab	A000192(022)			2	40		20	60	1
			Total	14	5	4	680	140	180	1000	21

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

.

Chhattisgarh Swami VivekanandTechnical University (CSVTU, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B Tech Honours (Artificial Intelligence) (Second Semester)

S.N	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Basic Science	Engineering Mathematics-II	A000271(014)	2	1	-	100	20	20	140	3
2.	Computer Science Engineering	Data Structure Using C	A000272(022)	2	1	-	100	20	20	140	3
3.	Computer Science Engineering	Object Oriented Programming	A000273(022)	2	1	-	100	20	20	140	3
4.	Electronics and Telecommunication	Digital Logic & Design	A000274(028)	2	1	-	100	20	20	140	3
5.	Computer Science Engineering	Python for Data Science	A000275(022)	2	1	-	100	20	20	140	3
6	Humanities	Entrepreneurship	A000276(046)	2	-	-	40	-	20	60	2
7	Computer Science Engineering	Data Structure Using C Lab	A000291(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engineering	Object Oriented Programming Lab	A000292(022)		-	2	40	-	20	60	1
9	Computer Science Engineering	Python for Data Science Lab	A000293(022)		-	2	40	-	20	60	1
10	Electronics and Telecommunication	Digital Logic & Design Lab	A000294(028)			2	40		20	60	1
			Total	12	5	8	700	100	200	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 Honours (Artificial Intelligence) (Third Semester)

S.N	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Probability and Statistics	B127371(022)	2	1	-	100	20	20	140	3
2.	Computer Science Engg.	Analysis & Design of Algorithm	B127372(022)	2	1	-	100	20	20	140	3
3.	Computer Science Engg.	Computer Organization and Architecture	B127373(022)	2	1	-	100	20	20	140	3
4.	Computer Science Engg.	Discrete Structure	B127374(022)	2	1	-	100	20	20	140	3
5.	Computer Science Engg.	Database Management System	B127375(022)	2	1	-	100	20	20	140	3
6.	Computer Science Engg.	Analysis & Design of Algorithm Lab	B127391(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Database Management System Lab	B127392(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	Independent Project	B127393(022)	-	-	8	120	-	40	160	4
9.	Non Credit Course	Personality Development	B127394(022)	-	-	2	-	-	20	20	-
Total				**10**	**5**	**14**	**700**	**100**	**200**	**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 Honours (Artificial Intelligence) (Fourth Semester)

S.N	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Computer Network	B127471(022)	2	1	-	100	20	20	140	3
2.	Computer Science Engg.	Artificial Intelligence: Principles and Applications	B127472(022)	2	1	-	100	20	20	140	3
3.	Computer Science Engg.	Operating System	B127473(022)	2	1	-	100	20	20	140	3
4.	Computer Science Engg.	Theory of Computation	B127474(022)	2	1	-	100	20	20	140	3
5.	Computer Science Engg.	R for Data Science	B127475(022)	2	1	-	100	20	20	140	3
6	Computer Science Engg.	Data Visualization	B127476(022)	2	1	-	80	20	20	120	3
7	Computer Science Engg.	Computer Network Lab	B127491(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	Data Visualization Lab	B127492(022)	-	-	2	40	-	20	60	1
9.	Computer Science Engg.	R for Data Science Lab	B127493(022)	-	-	2	40	-	20	60	1
Total				**12**	**6**	**6**	**700**	**120**	**180**	**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 Honours (Artificial Intelligence) (Fifth Semester)

S.N	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Machine Learning	C127571(022)	3	1	-	100	20	20	140	4
2.	Computer Science Engg.	Predictive Modeling and Analytics	C127572(022)	3	1	-	100	20	20	140	4
3.	Computer Science Engg.	Cryptography and Network Security	C127573(022)	3	1	-	100	20	20	140	4
4.	Computer Science Engg.	Artificial Neural Networks	C127574(022)	3	1	-	100	20	20	140	4
5.	*Professional Elective – I*			3	1	-	100	20	20	140	4
6.	Computer Science Engg.	Machine Learning Lab	C127591(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Predictive Modeling and Analytics Lab	C127592(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	Artificial Neural Networks Lab	C127593(022)	-	-	2	40	-	20	60	1
9	Computer Science Engg.	Minor Project-I based on Industrial Training	C127594(022)	-	-	10	80	-	40	120	5
Total				**15**	**4**	**14**	**700**	**100**	**200**	**1000**	**28**

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 Engineering	C127531(022)	Advanced Computer Network
2	Computer Science Engineering	C127532(022)	Computational Complexity
3	Computer Science Engineering	C127533(022)	Distributed 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 Honours (Artificial Intelligence) (Sixth Semester)

S.N	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Computer Science Engg.	Project Based on Internship	C127691(022)	--	-	40	600	-	400	1000	20
Total						**40**	**600**		**400**	**1000**	**20**

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 Honours (Artificial Intelligence) (Seventh Semester)

S.N	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Intelligent Systems & Robotics	D127771(022)	3	1	-	100	20	20	140	4
2.	Computer Science Engg.	Business Intelligence and Analytics	D127772(022)	2	1	-	100	20	20	140	3
3.	Computer Science Engg.	Software Engineering	D127773(022)	2	1	-	100	20	20	140	3
4.	Computer Science Engg	Gaming Theory	D127774(022)	3	1	-	100	20	20	140	4
5.	*Professional Elective* – II *(Refer Table I)*			2	1	-	80	20	20	120	3
6.	*Open Elective I (Refer Table III)*			2	1		50	20	20	90	3
7.	Computer Science Engg.	Intelligent Systems & Robotics Lab	D127791(022)	-	-	2	40	-	20	60	1
8.	Computer Science Engg.	Business Intelligence and Analytics Lab	D127792(022)	-	-	2	40	-	20	60	1
9	Computer Science Engg.	Software Engineering lab	D127793(022)	-	-	2	40	-	20	60	1
10	Computer Science Engg.	Minor Project	D127794(022)	4	-	-	20	-	20	40	4
11	Humanities	Technical Communication and Soft Skill **(Non Credit)**	D127001(046)	2	-	-	-	-	10	10	-
Total				20	6	6	670	120	210	1000	27

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.	D127731(022)	Computer Vision
2	Computer Science Engg.	D127732(022)	Multimedia System and Application
3	Computer Science Engg.	D127733(022)	Image Processing
4	Computer Science Engg.	D127734(022)	High Performance Computing
5	Computer Science Engg.	D127735(022)	Crypto-currency and Block Chain Technologies

Table – I (Open Elective – I)

S.N.	Board of Studies	Course Code	Subject
1	Management	D000751(076)	Managing Innovation & Entrepreneurship
2	Management	D000752(076)	Principle of Management
3	Management	D000753(076)	Industrial Economics and Management
4	Management	D000754(076)	Entrepreneurship Development
5	Management	D000755(076)	Management Information System

Note: (1) 1/4 th 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 Honours (Artificial Intelligence) (Eight Semester)

S.N	Board of Studies	Courses (Subject)	Course Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1.	Computer Science Engg.	Deep Learning	D127871(022)	3	1	-	100	20	20	140	4
2	Computer Science Engg.	Cloud Computing	D127872(022)	3	1	-	100	20	20	140	4
3.	*Professional Elective – III (Refer Table I)*			2	1	-	100	20	20	140	3
4.	*Open Elective II(Refer Table III)*			1	1		100	20	20	140	2
5.	Computer Science Engg.	Cloud Computing Lab	D127891(022)	-	-	2	40	-	20	60	1
6.	Computer Science Engg.	Deep Learning lab	D127892(022)	-	-	2	40	-	20	60	1
7.	Computer Science Engg.	Major Project	D127893(022)	-	-	22	130		180	310	11
8.	Humanities	Indian Constitution (Non Credit)	D000801(46)	2		-	-	-	10	10	-
Total				11	4	26	660	80	260	1000	26

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	Course Code	Subject
1	Computer Science Engg.	D127831(022)	Applied Graph Theory
2	Computer Science Engg.	D127832(022)	Computational Geometry
3	Computer Science Engg.	D127833(022)	Explainable Artificial Intelligence (XAI)
4	Computer Science Engg.	D127834(022)	Super Computing

Table – I (Open Elective – II)

S.N.	Board of Studies	Course Code	Subject
1	Management	D000851(076)	Technology Management
2	Management	D000852(076)	Decision Support & Executive Information System
3	Management	D000853(076)	Managerial Skills
4	Computer Science Engg.	D000854(022)	Information Theory and Coding

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.