Chhattisgarh Swami Vivekanand Technical University, Bhilai (C.G.)

Scheme of Teaching and Examination
Computer Science and Engineering Specialization in

M.Tech.(Artificial Intelligence & Data Science)

Semester - I

S. No	Board of Study	Subject Code	Subject Name	Periods per week			Scheme of Exam Theory/Practical			Total Marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Computer Sc. & Engineering	5111111(022)	Mathematics (Linear Algebra)	3	1	-	100	20	20	140	4
2	Computer Sc. & Engineering	5111112(022)	Algorithms and Data Structure	3	1	-	100	20	20	140	4
3	Computer Sc. & Engineering	5111113(022)	Foundation of Data Science	3	1	-	100	20	20	140	4
4	Computer Sc. & Engineering	5111114(022)	Principles of Artificial Intelligence and Machine Learning	3	1	-	100	20	20	140	4
5	Refer Table – I		Elective –I	3	1	-	100	20	20	140	4
6	Computer Sc. & Engineering	5111121(022)	Numerical Computation Laboratory	-	-	4	75		75	150	2
7	Computer Sc. & Engineering	5111122(022)	Statistical Computing Lab (MATLAB)	-	-	4	75		75	150	2
	Total			**15**	**5**	**8**	**650**	**100**	**250**	**1000**	**24**

L-Lecture, T- Tutorial, P- Practical, ESE- End Semester Examination, CT- Class Test, TA- Teacher'sAssessment

Note : Duration of all theory papers will be of Three Hours.

Table – I			
Elective – I			
S.No.	Board of Study	Subject Code	Subject Name
1	Computer Science & Engineering	5111131(022)	Data Preparation & Analytics
2	Computer Science & Engineering	5111132(022)	Web Technologies and Applications
3	Computer Science & Engineering	5111133(022)	Data Storage Techniques & Networks
4	Computer Science & Engineering	5111134(022)	AI for Robotics

Note (1) – 1/4th of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session .

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

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Semester - II

S. No	Board of Study	Subject Code	Subject Name	Periods per week			Scheme of Exam			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Sc. & Engineering	5111211(022)	Artificial Neural Network	3	1	-	100	20	20	140	4
2	Computer Sc. & Engineering	5111212(022)	Probabilistic Graphical Models	3	1	-	100	20	20	140	4
3	Computer Sc. & Engineering	5111213(022)	Data Science and Application of NLP	3	1	-	100	20	20	140	4
4	Computer Sc. & Engineering	5111214(022)	Data Visualization	3	1	-	100	20	20	140	4
5	Refer Table – II		Elective –II	3	1	-	100	20	20	140	4
6	Computer Sc. & Engineering	5111221(022)	Machine Learning Laboratory	--	-	4	75		75	150	2
7	Computer Sc. & Engineering	5111222(022)	Data Visualization Laboratory	-	-	4	75		75	150	2
	Total			15	5	8	650	100	250	1000	24

L-Lecture, T- Tutorial, P- Practical, ESE- End Semester Examination, CT- Class Test, TA- Teacher'sAssessment

Note : Duration of all theory papers will be of Three Hours.

Table – II			
Elective –II			
S.No.	Board of Study	Subject Code	Subject Name
1	Computer Science & Engineering	5111231(022)	Cloud Computing
2	Computer Science & Engineering	5111232(022)	Cyber Security
3	Computer Science & Engineering	5111233(022)	Quantum AI
4	Computer Science & Engineering	5111234(022)	Data Science Applications of Vision

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Semester - III

S. No.	Board of Study	Subject Code	Subject Name	Periods per week			Scheme of Exam			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Sc. & Engineering	5111311(022)	Data Security	3	1	-	100	20	20	140	4
2	**Refer Table –III**		**Elective –III**	3	1	-	100	20	20	140	4
3	Computer Sc. & Engineering	5111321(022)	Preliminary work on Dissertation	-	-	28	100	-	100	200	14
4	Computer Sc. & Engineering	5111322(022)	Seminar based on Dissertation	-	-	4	-	-	20	20	2
Total				6	2	32	300	40	160	500	24

L-Lecture, T- Tutorial, P- Practical, ESE- End Semester Examination, CT- Class Test, TA- Teacher'sAssessment

Table – III			
Elective – III			
S.No.	Board of Study	Subject Code	Subject Name
1	Computer Science & Engineering	5111331(022)	Information Retrieval System
2	Computer Science & Engineering	5111332(022)	Real Time video AI techniques
3	Computer Science & Engineering	5111333(022)	Big Data
4	Computer Science & Engineering	5111334(022)	Business Data Analysis

Note (1) – **1/4th of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session .**

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

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Semester - IV

S. No.	Board of Study	Subject Code	Subject Name	Periods per week			Scheme of Exam			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory/Practical				
							ESE	CT	TA		
1	Computer Sc. & Engineering	5111421(022)	Major Project + Seminar	6	-	34	300	-	200	500	20
Total				**6**	**-**	**34**	**300**	**-**	**200**	**500**	**20**

L-Lecture, T- Tutorial, P- Practical, ESE- End Semester Examination, CT- Class Test, TA- Teacher's Assessment

Scheme of Marks Allotment

Semester	Total Marks	Grand Total
I	**1000**	
II	**1000**	**3000**
III	**500**	
IV	**500**	