Chhattisgarh Swami Vivekanand Technical University, Bhilai

Scheme of Teaching and Examination

M. Tech. (Data Science)

1st Semester

S.N.	Board of Study	Sub Code	Subject	Periods Per Week			Scheme of Examination Theory/Practical			Total Marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Computer Sc. &Engg.	**506111(22)**	Big Data Analytics	3	1	-	100	20	20	140	4
2	Computer Sc. &Engg	**506112(22)**	Statistical Computing	3	1	-	100	20	20	140	4
3	Computer Sc. &Engg	**506113 (22)**	Next Generation Databases	3	1	-	100	20	20	140	4
4	Computer Sc. &Engg	**506114 (22)**	Predictive Analytics	3	1	-	100	20	20	140	4
5	**Refer Table-I**		**Elective-I**	3	1	-	100	20	20	140	4
6	Computer Sc. &Engg	**506121(22)**	Big Data Analytics Laboratory	-	-	3	75	-	75	150	2
7	Computer Sc. &Engg	**506122 (22)**	Next Generation Databases Laboratory	-	-	3	75	-	75	150	2
Total				**15**	**5**	**6**	**650**	**100**	**250**	**1000**	**24**

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

Elective -I			
S. N.	**Board of Study**	**Sub Code**	**Subject Name**
1	Computer Sc. & Engg.	**506131(22)**	Data Mining and Warehousing
2	Computer Sc. & Engg	**506132(22)**	Cloud Computing and Virtualization
3	Computer Sc. & Engg	**506133(22)**	Optimization Methods
4	Computer Sc. & Engg	**506134(22)**	Probabilistic Graphical Models
5	Computer Sc. & Engg	**584135(22)**	Mobile Computing

Note 1: Choice of elective once made for an examination cannot be changed in future examinations.

Note 2: Examination Duration of all Theory papers will be of THREE hours.

Note 3: **Tutorials to be conducted in the lab to teach the applications of the subject.**

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Scheme of Teaching and Examination

M. Tech. (Data Science)

2nd Semester

S. N.	Board of Study	Sub Code	Subject	Periods Per Week			Scheme of Examination			Total Marks	Credit L+(T+P)/2
							Theory /Practical				
				L	T	P	ESE	CT	TA		
1	Computer Sc. & Engg.	506211(22)	High Performance Computing	3	1	-	100	20	20	140	4
2	Computer Sc. & Engg	506212(22)	Applied Multivariate Analysis	3	1	-	100	20	20	140	4
3	Computer Sc. & Engg	506213(22)	Machine Learning	3	1	-	100	20	20	140	4
4	Computer Sc. & Engg	506214(22)	Internet of Things	3	1	-	100	20	20	140	4
5	Refer Table-II		Elective-II	3	1	-	100	20	20	140	4
6	Computer Sc. & Engg	506221(22)	Machine Learning Lab	-	-	3	75	-	75	150	2
7	Computer Sc. & Engg	506222(22)	IOT Laboratory	-	-	3	75	-	75	150	2
Total				15	5	6	650	100	250	1000	24

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

Elective -II			
S. N.	Board of Study	Sub Code	Subject
1	Computer Sc. & Engg.	506231(22)	Artificial Intelligence
2	Computer Sc. & Engg	506232(22)	Information Retrieval
3	Computer Sc. & Engg	506233(22)	Image and Video analytics
4	Computer Sc. & Engg	506234(22)	E-Technologies
5	Computer Sc. & Engg	506235(22)	Social Networking and Mining

Note 1: Choice of elective once made for an examination cannot be changed in future examinations.

Note 2: Examination Duration of all Theory papers will be of THREE hours.

Note 3: **Tutorials to be conducted in the lab to teach the applications of the subject.**

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Scheme of Teaching and Examination

M. Tech. (Data Science)

3rd Semester

S. N.	Board of Study	Sub Code	Subject	Periods Per Week			Scheme of Examination			Total Marks	Credit L+(T+P)/2
							Theory /Practical				
				L	T	P	ESE	CT	TA		
1	Computer Sc. & Engg.	506311(22)	Data Security	3	1	-	100	20	20	140	4
2	Refer Table- 3 Elective-III			3	1	-	100	20	20	140	4
3	Computer Sc. & Engg.	506321(22)	Preliminary Work on Dissertation	-	-	28	100	-	100	200	14
4	Computer Sc. & Engg.	506322(22)	Technical Seminar	-	-	3	-		20	20	2
Total				6	2	31	300	40	160	500	24

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

Refer Table- 3 (Elective -III)			
S. N.	Board of Study	Sub Code	Subject
1	Computer Sc. & Engg.	506331(22)	Natural Language Computing
2	Computer Sc. & Engg	506332(22)	Web Intelligence
3	Computer Sc. & Engg	506333(22)	Bioinformatics
4	Computer Sc. & Engg	506334(22)	Social Media Analytics
5	Computer Sc. & Engg	506335(22)	Deep Learning

Note 1: Choice of elective once made for an examination cannot be changed in future examinations.

Note 2: Examination Duration of all Theory papers will be of THREE hours.

Note 3: **Tutorials to be conducted in the lab to teach the applications of the subject.**

Chhattisgarh Swami Vivekanand Technical University, Bhilai

Scheme of Teaching and Examination

M. Tech. (Data Science)

4th Semester

S. N.	Board of Study	Sub Code	Subject	Periods Per Week			Scheme of Examination Theory /Practical			Total Marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Computer Sc. & Engg	506421(22)	Dissertation + Seminar + Viva Voce	6	-	34	300	-	200	500	23
Total				6	-	34	300	-	200	500	23

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

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