

**Department of Information Technology**

**B.Sc. in Data Science**

<b>Semester I</b>						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Mathematics for Computer Science	3	1	0	4
2		Programming For Problem Solving	3	0	4	5
3		Introduction to Data Science	3	1	0	4
4		Introduction to AI & Machine Learning	3	1	0	4
5		Electrical and Electronics Engineering	3	1	0	4
6		English Communication/Soft Skills	3	0	4	5
<b>Total Credit</b>						26

<b>Semester II</b>						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Discrete Mathematics	3	1	0	4
2		Computer Aided Design and Drawing	3	0	4	5
3		Data Structure with Python	3	0	4	5
4		Data Acquisition & Processing	3	1	0	4
5		Environmental Science	1	0	0	1
<b>Sessional</b>						
1		Project -I	0	0	2	1
<b>Total Credit</b>						20

<b>Semester III</b>						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Operating System	3	0	4	5
2		Database Management System	3	0	4	5
3		Probability & Statistics	3	1	0	4
4		Data Mining & Data Warehousing	3	0	4	5
5		Value & Ethics in Data Science	3	1	0	4
<b>Total Credit</b>						23

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<b>Semester IV</b>						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Graphs-Algorithms and Mining	3	0	4	5
2		Machine Learning for Data Science in R	3	0	4	5
3		Inferential Statistics	3	0	0	3
4		<b>Elective I</b>	3	0	4	5
		Descriptive Analytics				
		Deep Learning				
		Real Time Analytics				
<b>Sessional</b>						
1		Technical Seminar and Communication Skill	0	0	2	1
2		Project -II	0	0	2	1
<b>Total Credit</b>						<b>20</b>

<b>Semester V</b>						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Cloud Computing	3	0	4	5
2		Signal Processing	3	0	4	5
3		<b>Elective-II</b>	3	0	0	3
		Optimisation Techniques in Data Analysis				
		Translational Bio-informatics				
4		<b>Elective – III</b>	3	0	0	3
		Information and Coding Theory				
		Predictive & Prognostic Analytics				
5.		Industrial Training and Presentation	0	0	2	1
<b>Sessional</b>						
1		Major Project- I	0	0	4	2
<b>Total Credit</b>						<b>19</b>

<b>Semester VI</b>						
Sl. No.	Course Code	Course Name	L	T	P	Credits
<b>Theory</b>						
1		Big Data Analytics	3	0	4	5
2		Computer Vision & Image Processing	3	0	4	5
3		<b>Elective -IV</b>	3	0	0	3

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		Machine Learning for Financial Modelling and Forecasting				
		Applied Machine Learning for Medical Image Analysis				
		Data Warehousing				
		Natural Language Processing				
<b>Sessional</b>						
1		Grand Viva Voce	0	0	2	1
2		Major Project -II	0	0	4	2
<b>Total Credit</b>						<b>16</b>

<b>Semester</b>	<b>Credit</b>
I	26
II	20
III	23
IV	20
V	19
VI	16
<b>TOTAL</b>	<b>124</b>