

**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
**PANIPAT**  
**Department of Management Studies**

Semester: 4th

Course Title: **Data Analysis using Python** Course No . BA-405

<b>Sr. No.</b>	<b>Lecture No.</b>	<b>Topics to be covered</b>	<b>Target Outcome</b>
1	L-1	Introduction to Computer	CO1
2	L-2	Introduction to Python Programming	CO3
3	L-3	Basics of Python Programming Session -1	CO3
4	L-4	Basics of Python Programming Session -2	CO3
5	L-5	Variables, Expressions and Statements Session -1	CO3
6	L-6	Variables, Expressions and Statements Session -2	CO1
7	L-7	Decision Statements Session-1	CO1
8	L-8	Decision Statements Session-2	CO1
9	L-9	Conditional and Looping Construct Session-1	CO1
10	L-10	Conditional and Looping Construct	CO1

<b>Sr. No.</b>	<b>Lecture No.</b>	<b>Topics to be covered</b>	<b>Target Outcome</b>
		Session-2	
<b>11</b>	<b>L-11</b>	Conditional and Looping Construct Session-3	CO1
<b>12</b>	<b>L-12</b>	Functions session-1	CO2
<b>13</b>	<b>L-13</b>	Functions session-2	CO2
<b>14</b>	<b>L-14</b>	Strings Session-1	CO2
<b>15</b>	<b>L-15</b>	Strings Session-2	CO2
<b>16</b>	<b>L-16</b>	Lists List Processing: Searching and Sorting	CO3
<b>17</b>	<b>L-17</b>	Object-oriented Programming: Class, Objects and Inheritance Session-1	CO3
<b>18</b>	<b>L-18</b>	Object-oriented Programming: Class, Objects and Inheritance Session-2	CO3
<b>19</b>	<b>L-19</b>	Tuples, Sets and Dictionaries	CO3
<b>20</b>	<b>L-20</b>	Graphics Programming: Drawing with Turtle Graphics Session-1	CO4

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21	L-21	Graphics Programming: Drawing with Turtle Graphics Session-2	CO4
22	L-22	Graphics Programming: Drawing with Turtle Graphics Session-3	CO4
23	L-23	Graphics Programming: Drawing with Turtle Graphics Session-4	CO4
24	L-24	File Handling Session-1	CO4
25	L-25	File Handling Session-2	CO4
26	L-26	File Handling Session-3	CO4