

## Domain : Data Science (Minimum 60 Weeks)

## Core Courses

You have to complete 3 core courses

Please choose one course against each serial number for completing a core where there are multiple courses in a serial number

Sl No	Nptel CourseId	Course Name	SME Name	Institute	Course Duration	Previous Run	Jul-Dec 2024
1	106106212	Python for Data Science	Prof. Ragunathan Rengasamy	IIT Madras	4 weeks	<a href="#">noc23-cs99</a> <a href="#">noc23-cs21</a> <a href="#">noc22-cs74</a> <a href="#">noc22-cs32</a> <a href="#">noc21-cs78</a> <a href="#">noc21-cs33</a> <a href="#">noc20-cs80</a> <a href="#">noc20-cs36</a> <a href="#">noc19-cs59</a> <a href="#">noc24-cs54</a>	<a href="#">noc24-cs68</a>
	106106145	OR Programming, Data Structures and Algorithms in Python	Prof. Madhavan Mukund	Chennai Mathematical Institute	8 weeks	<a href="#">noc23-cs95</a> <a href="#">noc23-cs15</a> <a href="#">noc22-cs70</a> <a href="#">noc22-cs26</a> <a href="#">noc21-cs67</a> <a href="#">noc21-cs21</a> <a href="#">noc20-cs70</a> <a href="#">noc20-cs26</a> <a href="#">noc19-cs40</a> <a href="#">noc19-cs08</a> <a href="#">noc18-cs34</a> <a href="#">noc18-</a>	<a href="#">noc24-cs78</a>

Sl No	Nptel CourseId	Course Name	SME Name	Institute	Course Duration	Previous Run	Jul-Dec 2024
						cs21- noc17- cs28 noc17- cs10 noc16- cs11 noc24- cs45	
2	110106072	Introduction to Data Analytics	Prof. Nandan Sudarsanam, Prof. Balaraman Ravindran	IIT Madras	8 weeks	noc17- mg24 noc16- mg06 noc15- mg05	-
	106106179	OR Data Science for Engineers	Prof. Ragunathan Rengasamy, Prof. Shankar Narasimhan	IIT Madras	8 weeks	noc23- cs97 noc23- cs17 noc22- cs72 noc22- cs28 noc21- cs69 noc21- cs23 noc20- cs72 noc20- cs28 noc19- cs60 noc19- cs13 noc18- cs28 noc24- cs53	noc24- cs133
	106107220	OR Data Analytics with Python	Prof. A. Ramesh	IIT Roorkee	12 weeks	noc23- cs08 noc22- cs08 noc21- cs45 noc20- cs46 noc24- cs20	
3	106105152	Introduction To Machine Learning - IITKGP	Prof. Sudeshna Sarkar	IIT Kharagpur	8 weeks	noc23- cs87 noc22- cs97 noc21- cs85 noc19- cs52	noc24- cs81

SI No	Nptel CourseId	Course Name	SME Name	Institute	Course Duration	Previous Run	Jul-Dec 2024
						<a href="#">noc18-cs40</a> <a href="#">noc17-cs26</a> <a href="#">noc16-cs18</a>	
	<a href="#">106106139</a>	OR Introduction to Machine Learning	Prof. Balaraman Ravindran	IIT Madras	12 weeks	<a href="#">noc23-cs98</a> <a href="#">noc23-cs18</a> <a href="#">noc22-cs73</a> <a href="#">noc22-cs29</a> <a href="#">noc21-cs70</a> <a href="#">noc21-cs24</a> <a href="#">noc20-cs73</a> <a href="#">noc20-cs29</a> <a href="#">noc19-cs53</a> <a href="#">noc18-cs26</a> <a href="#">noc17-cs17</a> <a href="#">noc16-cs03</a> <a href="#">noc24-cs51</a>	<a href="#">noc24-cs101</a>

### Elective Courses

You have to complete 3 elective courses

For the number of electives to be taken  
Please choose one course against each serial number for completing an elective where there are multiple courses in a serial number

SI No	Nptel CourseId	Course Name	SME Name	Institute	Course Duration	Previous Run	Jul-Dec 2024
1	<a href="#">106106184</a>	Deep Learning	Prof. Mitesh Khapra	IIT Madras	12 weeks	<a href="#">noc23-cs24</a> <a href="#">noc23-cs110</a> <a href="#">noc22-cs35</a> <a href="#">noc22-cs124</a> <a href="#">noc21-</a>	<a href="#">noc24-cs114</a>

Sl No	Nptel CourseId	Course Name	SME Name	Institute	Course Duration	Previous Run	Jul-Dec 2024
						<a href="#">cs76</a> <a href="#">noc21-cs35</a> <a href="#">noc20-cs50</a> <a href="#">noc19-cs85</a> <a href="#">noc18-cs41</a> <a href="#">noc24-cs59</a>	
	<a href="#">106105215</a>	OR Deep Learning	Prof. Prabir Kumar Biswas	IIT Kharagpur	12 weeks	<a href="#">noc23-ee131</a> <a href="#">noc23-cs56</a> <a href="#">noc22-cs22</a> <a href="#">noc21-cs05</a> <a href="#">noc20-cs62</a> <a href="#">noc20-cs11</a> <a href="#">noc19-cs54</a> <a href="#">noc24-ee04</a>	
	<a href="#">106106224</a>	OR Deep Learning for Computer Vision	Prof. Vineeth N Balasubramanian	IIT Hyderabad	12 weeks	<a href="#">noc23-cs126</a> <a href="#">noc22-cs76</a> <a href="#">noc21-cs93</a> <a href="#">noc20-cs88</a>	<a href="#">noc24-cs89</a>
2	<a href="#">106106143</a>	Reinforcement Learning	Prof. Balaraman Ravindran	IIT Madras	12 weeks	<a href="#">noc23-cs23</a> <a href="#">noc23-cs100</a> <a href="#">noc22-cs75</a> <a href="#">noc22-cs34</a> <a href="#">noc21-cs71</a> <a href="#">noc21-cs25</a> <a href="#">noc20-cs74</a> <a href="#">noc20-cs51</a> <a href="#">noc19-cs55</a> <a href="#">noc18-cs27</a> <a href="#">noc16-cs09</a> <a href="#">noc24-cs52</a>	<a href="#">noc24-cs102</a>

SI No	Nptel CourseId	Course Name	SME Name	Institute	Course Duration	Previous Run	Jul-Dec 2024
3	<a href="#">106106226</a>	Artificial Intelligence Search Methods For Problem Solving	Prof. Deepak Khemani	IIT Madras	12 weeks	<a href="#">noc23-cs92</a> <a href="#">noc22-cs67</a> <a href="#">noc21-cs79</a> <a href="#">noc20-cs81</a>	<a href="#">noc24-cs88</a>
	<a href="#">106102220</a>	OR An Introduction to Artificial Intelligence	Prof. Mausam	IIT Delhi	12 weeks	<a href="#">noc23-cs05</a> <a href="#">noc22-cs56</a> <a href="#">noc21-cs42</a> <a href="#">noc20-cs42</a> <a href="#">noc24-cs08</a>	
4	<a href="#">106106140</a>	Artificial Intelligence: Knowledge Representation and Reasoning	Prof. Deepak Khemani	IIT Madras	12 weeks	<a href="#">noc23-cs09</a> <a href="#">noc22-cs02</a> <a href="#">noc21-cs26</a> <a href="#">noc20-cs30</a> <a href="#">noc19-cs19</a> <a href="#">noc18-cs18</a> <a href="#">noc17-cs04</a> <a href="#">noc16-cs02</a> <a href="#">noc24-cs14</a>	
5	<a href="#">106105216</a>	Computer Vision	Prof. Jayanta Mukhopadhyay	IIT Kharagpur	12 weeks	<a href="#">noc23-cs77</a> <a href="#">noc22-cs89</a> <a href="#">noc21-cs101</a> <a href="#">noc19-cs58</a>	<a href="#">noc24-cs124</a>
6	<a href="#">106105158</a>	Natural Language Processing	Prof. Pawan Goyal	IIT Kharagpur	12 weeks	<a href="#">noc23-cs80</a> <a href="#">noc23-cs45</a> <a href="#">noc22-cs98</a> <a href="#">noc21-cs102</a> <a href="#">noc19-cs56</a> <a href="#">noc17-cs03</a>	

Sl No	Nptel CourseId	Course Name	SME Name	Institute	Course Duration	Previous Run	Jul-Dec 2024
						<a href="#">noc24-cs39</a>	
	<a href="#">106106211</a>	OR Applied Natural Language Processing	Prof. Ramaseshan R	Chennai Mathematical Institute	12 weeks	<a href="#">noc20-cs87</a> <a href="#">noc19-cs57</a>	-
7	<a href="#">106106213</a>	Practical Machine Learning with Tensorflow	Prof. Ashish Tendulkar Prof. B. Ravindran	IIT Madras & Google	8 weeks	<a href="#">noc20-cs95</a> <a href="#">noc20-cs44</a> <a href="#">noc19-cs81</a>	-
8	<a href="#">106101224</a>	Learning Analytics Tools	Prof. Ramkumar Rajendran	IIT Bombay	12 weeks	<a href="#">noc23-ge42</a> <a href="#">noc22-ge26</a> <a href="#">noc21-ge21</a> <a href="#">noc20-cs89</a>	<a href="#">noc24-ge57</a>
9	<a href="#">106104233</a>	Probability for Computer Science	Prof. Nitin Saxena	IIT Kanpur	8 weeks	<a href="#">noc21-cs104</a> <a href="#">noc24-cs62</a>	
10	<a href="#">106104356</a>	Linear programming and its applications to computer science	Prof. Rajat Mittal	IIT Kanpur	8 weeks	<a href="#">noc24-cs03</a>	
11	<a href="#">106101360</a>	Games and Information	Prof. Ankur A. Kulkarni	IIT Bombay	12 weeks	<a href="#">noc24-cs64</a>	
12	<a href="#">106106361</a>	Business Intelligence & Analytics	Prof. Saji K Mathew	IIT Madras	12 weeks	<a href="#">noc24-cs65</a>	
13	<a href="#">110104513</a>	Advanced R Programming for Data Analytics in Business	Prof. Abhinava Tripathi	IIT Kanpur	12 weeks		<a href="#">noc24-mg113</a>

## NPTEL Sitemap

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