Getting and Cleaning Data

**Course Project Code Book**

1. **Subject** – An identifier of the subject who carried out the experiment
2. **activityName** – The Activity Label (walking, walking upstairs, walking downstairs, sitting, standing or laying)
3. **tBodyAccMeanX** – Mean Body Acceleration in the X direction (sec).
4. **tBodyAccMeanY** – Mean Body Acceleration in the Y direction (sec).
5. **tBodyAccMeanZ** – Mean Body Acceleration in the Z direction (sec).
6. **tBodyAccStdX** – Standard Deviation of the Body Acceleration in the X direction (sec).
7. **tBodyAccStdY** – Standard Deviation of the Body Acceleration in the Y direction (sec).
8. **tBodyAccStdZ** – Standard Deviation of the Body Acceleration in the Z direction (sec).
9. **tGravityAccMeanX** – Mean Gravity Acceleration in the X direction (sec).
10. **tGravityAccMeanY** – Mean Gravity Acceleration in the Y direction (sec).
11. **tGravityAccMeanZ** – Mean Gravity Acceleration in the Z direction (sec).
12. **tGravityAccStdX** – Standard Deviation of the Gravity Acceleration in the X direction (sec).
13. **tGravityAccStdY** – Standard Deviation of the Gravity Acceleration in the Y direction (sec).
14. **tGravityAccStdZ** – Standard Deviation of the Gravity Acceleration in the Z direction (sec).
15. **tBodyAccJerkMeanX** – Mean Body Linear Acceleration (Jerk) in the X direction (sec).
16. **tBodyAccJerkMeanY** – Mean Body Linear Acceleration (Jerk) in the Y direction (sec).
17. **tBodyAccJerkMeanZ** – Mean Body Linear Acceleration (Jerk) in the Z direction (sec).
18. **tBodyAccJerkStdX** – Standard Deviation of the Body Linear Acceleration (Jerk) in the X direction (sec).
19. **tBodyAccJerkStdY** – Standard Deviation of the Body Linear Acceleration (Jerk) in the Y direction (sec).
20. **tBodyAccJerkStdZ** – Standard Deviation of the Body Linear Acceleration (Jerk) in the Z direction (sec).
21. **tBodyGyroMeanX** – Mean Body Angular Velocity (Gyroscope) in the X direction (sec).
22. **tBodyGyroMeanY** – Mean Body Angular Velocity (Gyroscope) in the Y direction (sec).
23. **tBodyGyroMeanZ** – Mean Body Angular Velocity (Gyroscope) in the Z direction (sec).
24. **tBodyGyroStdX** – Standard Deviation of the Body Angular Velocity (Gyroscope) in the X direction (sec).
25. **tBodyGyroStdY** – Standard Deviation of the Body Angular Velocity (Gyroscope) in the Y direction (sec).
26. **tBodyGyroStdZ** – Standard Deviation of the Body Angular Velocity (Gyroscope) in the Z direction (sec).
27. **tBodyGyroJerkMeanX** – Mean Body Angular Velocity (Gyroscope) Jerk in the X direction (sec).
28. **tBodyGyroJerkMeanY** – Mean Body Angular Velocity (Gyroscope) Jerk in the Y direction (sec).
29. **tBodyGyroJerkMeanZ** – Mean Body Angular Velocity (Gyroscope) Jerk in the Z direction (sec).
30. **tBodyGyroJerkStdX** – Standard Deviation of the Body Angular Velocity (Gyroscope) Jerk in the X direction (sec).
31. **tBodyGyroJerkStdY** – Standard Deviation of the Body Angular Velocity (Gyroscope) Jerk in the Y direction (sec).
32. **tBodyGyroJerkStdZ** – Standard Deviation of the Body Angular Velocity (Gyroscope) Jerk in the Z direction (sec).
33. **tBodyAccMeanMag** – Mean Body Acceleration Magnitude (sec).
34. **tBodyAccStdMag** – Standard Deviation of Body Acceleration Magnitude (sec).
35. **tGravityAccMeanMag** –Mean Gravity Acceleration Magnitude (sec).
36. **tGravityAccStdMag** – Standard Deviation of the Gravity Acceleration Magnitude (sec).
37. **tBodyAccJerkMeanMag** – Mean Body Acceleration Jerk Magnitude (sec).
38. **tBodyAccJerkStdMag** – Standard Deviation of Body Acceleration Jerk Magnitude (sec).
39. **tBodyGyroMeanMag** – Mean Body Angular Velocity (Gyroscope) Magnitude (sec).
40. **tBodyGyroStdMag** – Standard Deviation of the Body Angular Velocity (Gyroscope) Magnitude (sec).
41. **tBodyGyroJerkMeanMag** – Mean Body Angular Velocity (Gyroscope) Jerk Magnitude (sec).
42. **tBodyGyroJerkStdMag** – Standard Deviation of the Body Angular Velocity (Gyroscope) Jerk Magnitude (sec).
43. **fBodyAccMeanX** – Mean Body Acceleration in the X direction (Hz).
44. **fBodyAccMeanY** – Mean Body Acceleration in the Y direction (Hz).
45. **fBodyAccMeanZ** – Mean Body Acceleration in the Z direction (Hz).
46. **fBodyAccStdX** – Standard Deviation of the Body Acceleration in the X direction (Hz).
47. **fBodyAccStdY** – Standard Deviation of the Body Acceleration in the Y direction (Hz).
48. **fBodyAccStdZ** – Standard Deviation of the Body Acceleration in the Z direction (Hz).
49. **fBodyAccJerkMeanX** – Mean Body Linear Acceleration (Jerk) in the X direction (Hz).
50. **fBodyAccJerkMeanY** – Mean Body Linear Acceleration (Jerk) in the Y direction (Hz).
51. **fBodyAccJerkMeanZ** – Mean Body Linear Acceleration (Jerk) in the Z direction (Hz).
52. **fBodyAccJerkStdX** – Standard Deviation of the Body Linear Acceleration (Jerk) in the X direction (Hz).
53. **fBodyAccJerkStdY** – Standard Deviation of the Body Linear Acceleration (Jerk) in the Y direction (Hz).
54. **fBodyAccJerkStdZ** – Standard Deviation of the Body Linear Acceleration (Jerk) in the Z direction (Hz).
55. **fBodyGyroMeanX** – Mean Body Angular Velocity (Gyroscope) in the X direction (Hz).
56. **fBodyGyroMeanY** – Mean Body Angular Velocity (Gyroscope) in the Y direction (Hz).
57. **fBodyGyroMeanZ** – Mean Body Angular Velocity (Gyroscope) in the Z direction (Hz).
58. **fBodyGyroStdX** – Standard Deviation of the Body Angular Velocity (Gyroscope) in the X direction (Hz).
59. **fBodyGyroStdY** – Standard Deviation of the Body Angular Velocity (Gyroscope) in the Y direction (Hz).
60. **fBodyGyroStdZ** – Standard Deviation of the Body Angular Velocity (Gyroscope) in the Z direction (Hz).
61. **fBodyAccMeanMag** – Mean Body Acceleration Magnitude (Hz).
62. **fBodyAccStdMag** – Standard Deviation of the Body Acceleration Magnitude (Hz).
63. **fBodyAccJerkMeanMag** – Mean Body Acceleration Jerk Magnitude (Hz).
64. **fBodyAccJerkStdMag** – Standard Deviation of the Body Acceleration Jerk Magnitude (Hz).
65. **fBodyGyroMeanMag** – Mean Body Angular Velocity (Gyroscope) Magnitude (Hz).
66. **fBodyGyroStdMag** – Standard Deviation of the Body Angular Velocity (Gyroscope) Magnitude (Hz).
67. **fBodyGyroJerkMeanMag** – Mean Body Angular Velocity (Gyroscope) Jerk Magnitude (Hz).
68. **fBodyGyroJerkStdMag** – Standard Deviation of the Body Angular Velocity (Gyroscope) Jerk Magnitude (Hz).