

# **Financial Engineering Lab**

## **MA374 Lab05**

**Submitted by –**

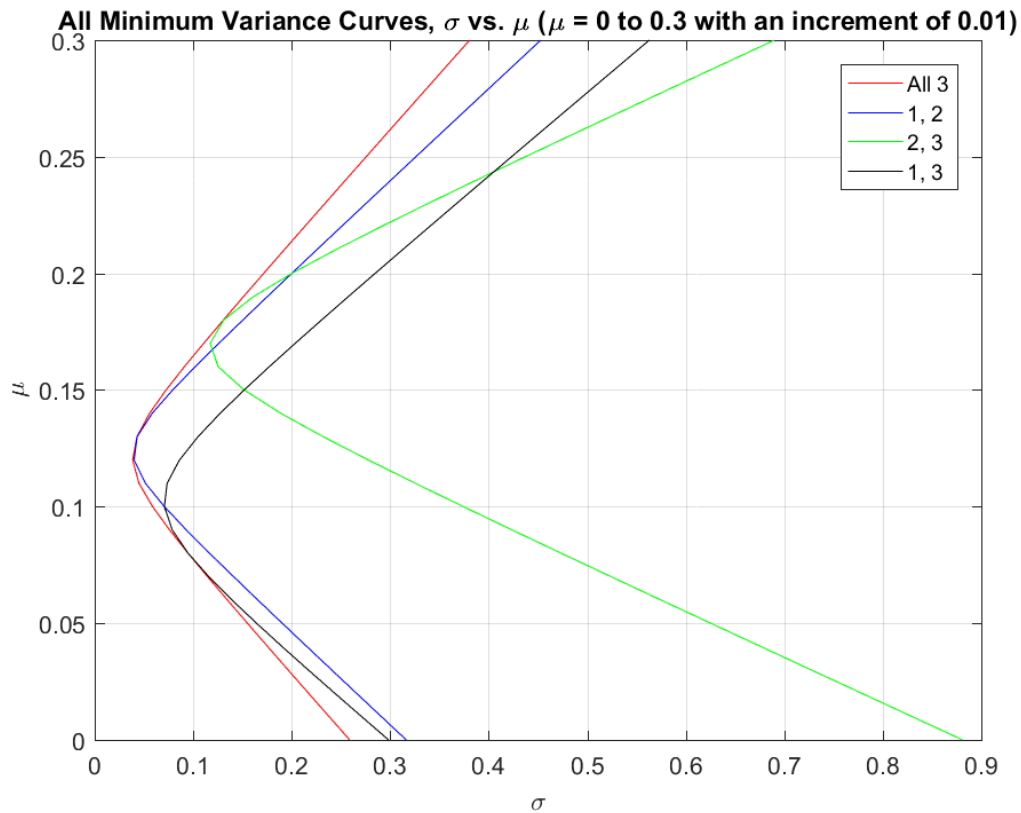
Ashish Kumar Poddar

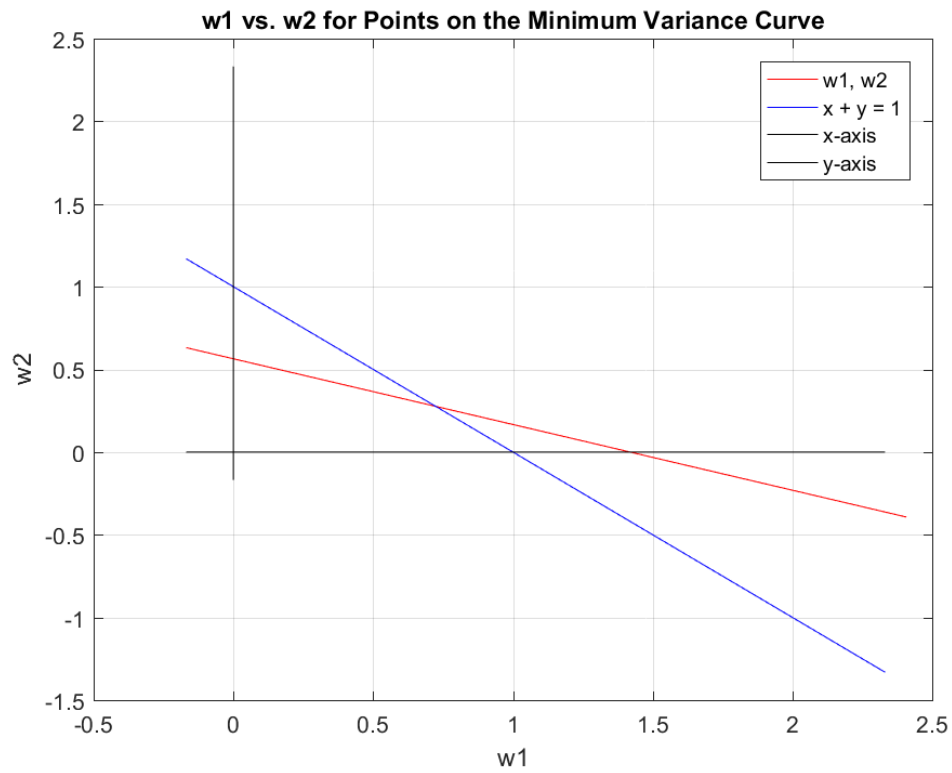
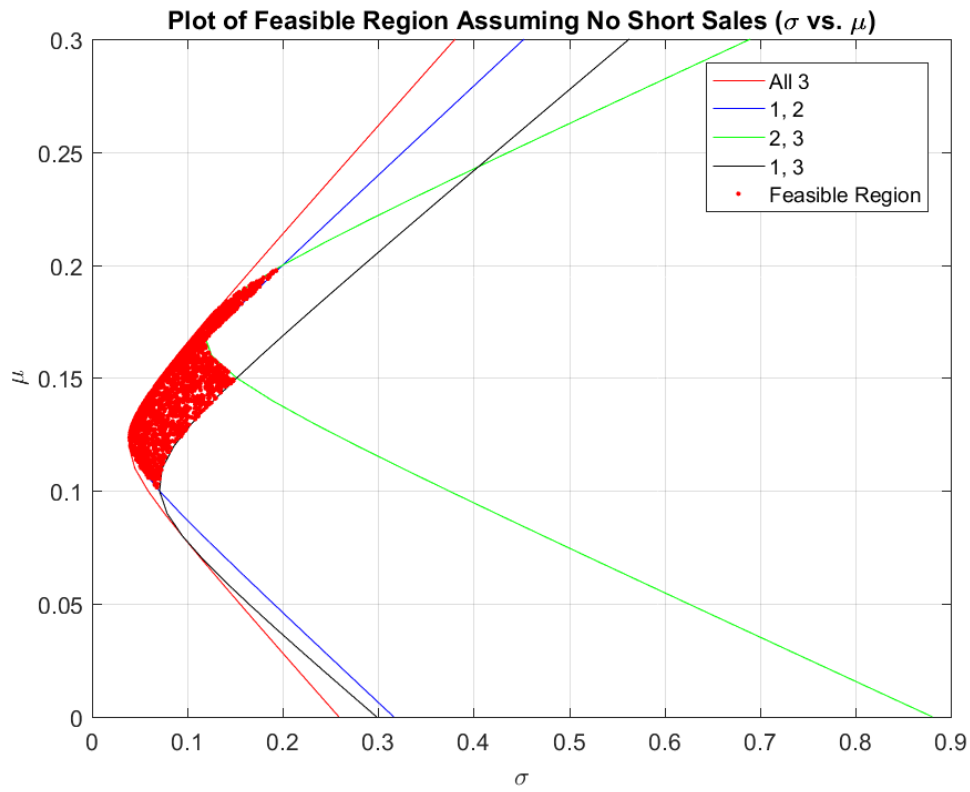
Roll No. – 150123049

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## Question 1

We were supposed to construct the efficient frontier, the minimum variance curve and find the feasible region assuming that short sales are not allowed.





## Question 2

We calculated the betas of the securities using the actual data and computing it for each index. They came out as –

NSE Indexed Betas -

1.0377	1.0183	1.0132	1.0524	0.9553	0.9830	0.9061
0.9338	0.9540	1.0638				

NSE Non-Indexed Betas -

1.0601	1.0191	1.0360	1.0745	0.9307	1.0140	0.9173
1.1208	1.1470	1.1801				

BSE Indexed Betas -

0.9089	0.6062	1.0156	NaN	0.9572	0.9851	0.9561	1.0662
0.9346	0.9736						

BSE Non-Indexed Betas -

1.0620	1.0208	1.0378	1.0764	0.9324	1.0157	0.9189
1.1228	1.1490	1.1821				