

**PREDICTING ONE HOUR WIND SPEED AHEAD CONSIDERING LAST 24 LOOKBACKS USING  
SHALLOW DEEP NETS(ONLY ONE LAYER OF RNN ,LSTM ,GRU with Dense)**

**One Month Data(considering ON-Jan-2019) .Total sample 744**

	Signal Processing	Loss Function	RMSE-Train	RMSE-Test	MAE-Train	MAE-Test
LSTM	Without EMD	MAE	4.088	3.996	2.266	2.959
SimpleRNN			5.026	4.277	3.108	3.161
GRU			4.333	3.845	2.480	2.893
LSTM	Without EMD	RMSE	4.546	4.323	2.866	3.247
SimpleRNN			5.141	4.371	3.401	3.340
GRU			4.448	4.187	2.717	3.098
LSTM	IMF5	MAE	0.738	0.157	0.345	0.135
SimpleRNN			0.900	0.258	0.514	0.213
GRU			1.210	0.601	0.570	0.472
LSTM	IMF5	RMSE	1.743	0.465	0.833	0.405
SimpleRNN			0.855	0.319	0.461	0.258
GRU			1.262	0.376	0.542	0.323

**Considering One year Data(ON-all month-2017 ) sample size 8795**

	Signal Processing	Loss Function	RMSE-Train	RMSE-Test	MAE-Train	MAE-Test
LSTM	Without EMD	MAE	3.337	3.359	2.354	2.505
SimpleRNN			3.426	3.396	2.443	2.577
GRU			3.466	3.401	2.470	2.547
LSTM	Without EMD	RMSE	3.374	3.477	2.494	2.622
SimpleRNN			3.480	3.487	2.557	2.651
GRU			3.300	3.402	2.440	2.572
LSTM	IMF5	MAE	0.383	0.237	0.230	0.188
SimpleRNN			0.479	0.215	0.201	0.138
GRU			0.290	0.094	0.109	0.070
LSTM	IMF5	RMSE	0.274	0.150	0.124	0.092
SimpleRNN			0.456	0.166	0.185	0.108
GRU			0.374	0.172	0.189	0.121

