

APPENDIX E

GANTT CHART/KEY MILESTONES OF PROJECT

Gantt Chart of Final Year Project

APPENDIX F
Flash Calculation Spreadsheet

				LN = moles of comp. N in the liquid phase			VN = moles of comp. N in the vapor phase					
	Inlet Component	Mole Fraction %	K value graphica l	V/L = 1.5	V/L=0.5	V/L=1		MW	VN x MW _N	LN x MW _N	SG _N	LN x MW _N / SG _N
1	H2O	0.7935	0.02785	0.761681	0.782602	0.772000	0.021500	18.015	0.39	13.91	1	13.90757649
2	CO2	0.003	6.77	0.000269	0.000684	0.000386	0.002614	44.01	0.12	0.02	0.83	0.020472624
3	Nitrogen	0.0017	58	0.000019	0.000057	0.000029	0.001671	28.01	0.05	0.00	0.81	0.00099638
4	Methane	0.1336	37.5	0.002334	0.006765	0.003470	0.130130	16.04	2.09	0.06	0.3	0.185536277
5	Ethane	0.0105	8.3	0.000781	0.002039	0.001129	0.009371	30.07	0.28	0.03	0.36	0.094305556
6	Propane	0.0049	8.5	0.000356	0.000933	0.000516	0.004384	44.1	0.19	0.02	0.51	0.044600619
7	i-Butane	0.0018	0.98	0.000729	0.001208	0.000909	0.000891	58.12	0.05	0.05	0.56	0.094350649
8	n-Butane	0.002	0.72	0.000962	0.001471	0.001163	0.000837	58.12	0.05	0.07	0.58	0.116519647
9	i-Pentane	0.0009	0.32	0.000608	0.000776	0.000682	0.000218	72.15	0.02	0.05	0.62	0.079343842
10	n-Pentane	0.0009	0.28	0.000634	0.000789	0.000703	0.000197	72.15	0.01	0.05	0.6	0.084550781
11	n-Hexane	0.0014	0.98	0.000567	0.000940	0.000707	0.000693	86.178	0.06	0.06	0.66	0.092324151
12	n-Heptane	0.0058	0.32	0.003919	0.005000	0.004394	0.001406	86.178	0.12	0.38	0.69	0.548783926
13	n-Octane	0.0026	0.013	0.002550	0.002583	0.002567	0.000033	114.232	0.00	0.29	0.71	0.412946067
14	n-Nonane	0.0023	0.0044	0.002285	0.002295	0.002290	0.000010	128.259	0.00	0.29	0.72	0.407921396
15	n-Decane	0.0349	0.0018	0.034806	0.034869	0.034837	0.000063	142.286	0.01	4.96	0.73	6.790217882
TOTAL		0.9998				0.825781	0.152518		3.44	20.24		22.88044629

APPENDIX G
Mechanical Drawing Optimize (V-200) Separator