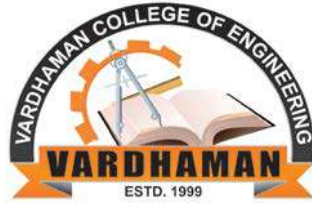


Attainment of Course Outcomes, Program Outcomes and Program Specific Outcomes

VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD
An autonomous institute, affiliated to JNTUH



Attainment of Course Outcomes, Program Outcomes and Program Specific Outcomes

DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING

VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD
An autonomous institute, affiliated to JNTUH

CO Attainments of courses through CIE and Semester End Examinations

Course Name	Course Outcomes	MT1	MT2	Q1	Q2	50% WT ON MT1 and MT2	15% WT ON Q1	15% WT ON Q2	Total CIE (100%)	SEE (100%)	80% WT on CIE	20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (YES/NO)
I Semester - Theory Courses														
Mathematics - I (A2001)	A2001.1	75.23		54.98	27.35	37.61	8.25	4.10	62.45	61.44	49.96	12.29	62.25	YES
	A2001.2	60.58		54.98	27.35	30.29	8.25	4.10	53.30	61.44	42.64	12.29	54.93	NO
	A2001.3		90.02	54.98	27.35	45.01	8.25	4.10	71.70	61.44	57.36	12.29	69.65	YES
	A2001.4		84.47	54.98	27.35	42.23	8.25	4.10	68.23	61.44	54.58	12.29	66.87	YES
	A2001.5		71.95	54.98	27.35	35.97	8.25	4.10	60.40	61.44	48.32	12.29	60.61	YES
Engineering Physics (A2002)	A2002.1	84.18		82.55	28.21	42.09	12.38	4.23	73.38	66.95	58.71	13.39	72.10	YES
	A2002.2	76.21		82.55	28.21	38.10	12.38	4.23	68.40	66.95	54.72	13.39	68.11	YES
	A2002.3		90.10	82.55	28.21	45.05	12.38	4.23	77.08	66.95	61.66	13.39	75.05	YES
	A2002.4		69.84	82.55	28.21	34.92	12.38	4.23	64.42	66.95	51.53	13.39	64.92	YES
	A2002.5		93.42	82.55	28.21	46.71	12.38	4.23	79.15	66.95	63.32	13.39	76.71	YES
Engineering Chemistry (A2003)	A2003.1	84.18		66.09	28.21	42.09	9.91	4.23	70.30	72.77	56.24	14.55	70.79	YES
	A2003.2	76.53		66.09	28.21	38.27	9.91	4.23	65.51	72.77	52.41	14.55	66.96	YES
	A2003.3		93.98	66.09	28.21	46.99	9.91	4.23	76.42	72.77	61.14	14.55	75.69	YES
	A2003.4		68.29	66.09	28.21	34.14	9.91	4.23	60.36	72.77	48.29	14.55	62.84	YES
	A2003.5		68.62	66.09	28.21	34.31	9.91	4.23	60.57	72.77	48.45	14.55	63.01	YES

Computer Programming (A2501)	A2501.1	55.50		49.15	27.35	27.75	7.37	4.10	49.03	54.04	39.22	10.81	50.03	NO
	A2501.2	27.32		49.15	27.35	13.66	7.37	4.10	31.41	54.04	25.13	10.81	35.94	NO
	A2501.3		66.00	49.15	27.35	33.00	7.37	4.10	55.59	54.04	44.47	10.81	55.28	NO
	A2501.4		56.56	49.15	27.35	28.28	7.37	4.10	49.69	54.04	39.75	10.81	50.56	NO
	A2501.5		74.81	49.15	27.35	37.41	7.37	4.10	61.10	54.04	48.88	10.81	59.69	NO
	A2501.6		38.23	49.15	27.35	19.11	7.37	4.10	38.23	54.04	30.59	10.81	41.40	NO
Basic Electrical Engineering (A2201)	A2201.1	36.39		72.84	29.11	18.20	10.93	4.37	41.86	58.30	33.49	11.66	45.15	NO
	A2201.2	77.59		72.84	29.11	38.80	10.93	4.37	67.61	58.30	54.09	11.66	65.75	YES
	A2201.3		93.99	72.84	29.11	46.99	10.93	4.37	77.86	58.30	62.29	11.66	73.95	YES
	A2201.4		39.79	72.84	29.11	19.90	10.93	4.37	43.99	58.30	35.19	11.66	46.85	NO
I Semester - Lab Courses														
Engineering Physics and Engineering Chemistry Laboratory (A2008)	A2008.1								100.00	100.00	80.00	20.00	100.00	YES
	A2008.2								100.00	100.00	80.00	20.00	100.00	YES
	A2008.3								100.00	100.00	80.00	20.00	100.00	YES
	A2008.4								100.00	100.00	80.00	20.00	100.00	YES
	A2008.5								100.00	100.00	80.00	20.00	100.00	YES
Computer Programming Lab (A2502)	A2502.1								100.00	100.00	80.00	20.00	100.00	YES
	A2502.2								100.00	100.00	80.00	20.00	100.00	YES
	A2502.3								100.00	100.00	80.00	20.00	100.00	YES
	A2502.4								100.00	100.00	80.00	20.00	100.00	YES

	A2502.5								100.00	100.00	80.00	20.00	100.00	YES
Computer Aided Engineering Drawing Lab (A2306)	A2306.1								89.48	92.85	71.58	18.57	90.15	YES
	A2306.2								89.48	92.85	71.58	18.57	90.15	YES
	A2306.3								89.48	92.85	71.58	18.57	90.15	YES
	A2306.4								89.48	92.85	71.58	18.57	90.15	YES
	A2306.5								89.48	92.85	71.58	18.57	90.15	YES
II Semester - Theory Courses														
Technical English (A2005)	A2005.1	66.90		78.30	80.60	33.45	11.74	12.09	71.60	97.89	57.28	19.58	76.86	YES
	A2005.2	95.45		78.30	80.60	47.73	11.74	12.09	89.45	97.89	71.56	19.58	91.14	YES
	A2005.3		98.86	78.30	80.60	49.43	11.74	12.09	91.58	97.89	73.27	19.58	92.84	YES
	A2005.4		59.53	78.30	80.60	29.77	11.74	12.09	67.00	97.89	53.60	19.58	73.18	YES
	A2005.5		19.79	78.30	80.60	9.90	11.74	12.09	42.16	97.89	33.73	19.58	53.31	NO
Mathematics - II (A2006)	A2006.1	41.27		52.12	81.03	20.64	7.82	12.16	50.76	82.20	40.61	16.44	57.05	NO
	A2006.2	36.15		52.12	81.03	18.08	7.82	12.16	47.56	82.20	38.05	16.44	54.49	NO
	A2006.3		65.24	52.12	81.03	32.62	7.82	12.16	65.74	82.20	52.59	16.44	69.04	YES
	A2006.4		59.57	52.12	81.03	29.79	7.82	12.16	62.20	82.20	49.76	16.44	66.20	YES
	A2006.5		27.68	52.12	81.03	13.84	7.82	12.16	42.26	82.20	33.81	16.44	50.25	NO
Numerical Methods (A2007)	A2007.1	63.88		57.69	54.98	31.94	8.65	8.25	61.05	90.72	48.84	18.14	66.98	YES
	A2007.2	93.89		57.69	54.98	46.94	8.65	8.25	79.80	90.72	63.84	18.14	81.99	YES
	A2007.3		84.68	57.69	54.98	42.34	8.65	8.25	74.05	90.72	59.24	18.14	77.38	YES

	A2007.4		90.48	57.69	54.98	45.24	8.65	8.25	77.68	90.72	62.14	18.14	80.28	YES
	A2007.5		29.91	57.69	54.98	14.96	8.65	8.25	39.82	90.72	31.86	18.14	50.00	NO
Data Structures through C (A2503)	A2503.1	57.84		86.38	70.82	28.92	12.96	10.62	65.62	89.45	52.50	17.89	70.39	YES
	A2503.2	59.39		86.38	70.82	29.70	12.96	10.62	66.59	89.45	53.27	17.89	71.17	YES
	A2503.3		67.31	86.38	70.82	33.66	12.96	10.62	71.55	89.45	57.24	17.89	75.13	YES
	A2503.4		60.12	86.38	70.82	30.06	12.96	10.62	67.05	89.45	53.64	17.89	71.53	YES
	A2503.5		32.60	86.38	70.82	16.30	12.96	10.62	49.85	89.45	39.88	17.89	57.77	NO
Electronic Devices (A2401)	A2401.1	57.65		52.40	72.10	28.83	7.86	10.82	59.38	70.04	47.50	14.01	61.51	YES
	A2401.2	80.93	60.52	52.40	72.10	35.36	7.86	10.82	67.55	70.04	54.04	14.01	68.05	YES
	A2401.3		60.79	52.40	72.10	30.39	7.86	10.82	61.34	70.04	49.07	14.01	63.08	YES
	A2401.4		37.50	52.40	72.10	18.75	7.86	10.82	46.78	70.04	37.43	14.01	51.43	NO
	A2401.5			52.40	72.10		7.86	10.82	62.25	70.04	49.80	14.01	63.81	YES
II Semester - Lab Courses														
English Language Communication Skills Laboratory (A2009)	A2009.1								100.00	100.00	80.00	20.00	100.00	YES
	A2009.2								100.00	100.00	80.00	20.00	100.00	YES
	A2009.3								100.00	100.00	80.00	20.00	100.00	YES
	A2009.4								100.00	100.00	80.00	20.00	100.00	YES
	A2009.5								100.00	100.00	80.00	20.00	100.00	YES
Data Structures through C Lab (A2504)	A2504.1								100.00	100.00	80.00	20.00	100.00	YES
	A2504.2								100.00	100.00	80.00	20.00	100.00	YES

	A2504.3								100.00	100.00	80.00	20.00	100.00	YES
	A2504.4								100.00	100.00	80.00	20.00	100.00	YES
	A2504.5								100.00	100.00	80.00	20.00	100.00	YES
Electronic Devices Lab (A2405)	A2405.1								100.00	100.00	80.00	20.00	100.00	YES
	A2405.2								100.00	100.00	80.00	20.00	100.00	YES
	A2405.3								100.00	100.00	80.00	20.00	100.00	YES
	A2405.4								100.00	100.00	80.00	20.00	100.00	YES
	A2405.5								100.00	100.00	80.00	20.00	100.00	YES
III Semester - Theory Courses														
Mathematics III (A2010)	A2010.1	79.66		66.55	61.96	39.83	9.98	9.29	73.88	53.05	59.11	10.61	69.72	YES
	A2010.2	69.82		66.55	61.96	34.91	9.98	9.29	67.73	53.05	54.19	10.61	64.80	YES
	A2010.3		81.77	66.55	61.96	40.89	9.98	9.29	75.20	53.05	60.16	10.61	70.77	YES
	A2010.4		65.64	66.55	61.96	32.82	9.98	9.29	65.12	53.05	52.10	10.61	62.71	YES
	A2010.5		72.64	66.55	61.96	36.32	9.98	9.29	69.50	53.05	55.60	10.61	66.21	YES
Environmental Science (A2011)	A2011.1	87.72	98.84	75.81	46.01	46.64	11.37	6.90	81.14	75.27	64.91	15.05	79.97	YES
	A2011.2	74.92		75.81	46.01	37.46	11.37	6.90	69.67	75.27	55.73	15.05	70.79	YES
	A2011.3		96.66	75.81	46.01	48.33	11.37	6.90	83.25	75.27	66.60	15.05	81.66	YES
	A2011.4			75.81	46.01		11.37	6.90	22.84	75.27	18.27	15.05	33.33	NO
	A2011.5	74.49	91.53	75.81	46.01	41.51	11.37	6.90	74.72	75.27	59.78	15.05	74.83	YES
Digital Logic Design	A2406.1	66.52		75.36	68.71	33.26	11.30	10.31	68.59	67.38	54.87	13.48	68.35	YES

(A2406)	A2406.2	68.07		75.36	68.71	34.04	11.30	10.31	69.56	67.38	55.65	13.48	69.12	YES
	A2406.3		61.68	75.36	68.71	30.84	11.30	10.31	65.56	67.38	52.45	13.48	65.93	YES
	A2406.4		53.15	75.36	68.71	26.58	11.30	10.31	60.23	67.38	48.19	13.48	61.66	YES
	A2406.5		59.04	75.36	68.71	29.52	11.30	10.31	63.91	67.38	51.13	13.48	64.61	YES
Signals and Systems (A2407)	A2010.1	85.86		90.68	50.36	42.93	13.60	7.55	80.11	26.81	64.09	5.36	69.45	YES
	A2010.2	84.07		90.68	50.36	42.04	13.60	7.55	78.99	26.81	63.19	5.36	68.55	YES
	A2010.3		67.8	90.68	50.36	33.90	13.60	7.55	68.82	26.81	55.06	5.36	60.42	YES
	A2010.4		74.92	90.68	50.36	37.46	13.60	7.55	73.27	26.81	58.62	5.36	63.98	YES
	A2010.5		82.55	90.68	50.36	41.28	13.60	7.55	78.04	26.81	62.43	5.36	67.79	YES
Probability Theory And Stochastic Processes (A2408)	A2408.1	78.64		68.1	63.31	39.32	10.22	9.50	73.79	39.78	59.03	7.96	66.99	YES
	A2408.2	79.66	88.96	68.1	63.31	42.16	10.22	9.50	77.33	39.78	61.87	7.96	69.82	YES
	A2408.3		74.79	68.1	63.31	37.40	10.22	9.50	71.38	39.78	57.11	7.96	65.06	YES
	A2408.4		78.5	68.1	63.31	39.25	10.22	9.50	73.70	39.78	58.96	7.96	66.92	YES
	A2408.5		92.47	68.1	63.31	46.24	10.22	9.50	82.43	39.78	65.95	7.96	73.90	YES
Electronic Circuit Analysis (A2409)	A2409.1		87.58	70.5	57.04	43.79	10.58	8.56	78.65	64.16	62.92	12.83	75.75	YES
	A2409.2	71.65		70.5	57.04	35.83	10.58	8.56	68.70	64.16	54.96	12.83	67.79	YES
	A2409.3		87.49	70.5	57.04	43.75	10.58	8.56	78.60	64.16	62.88	12.83	75.71	YES
	A2409.4		77.87	70.5	57.04	38.94	10.58	8.56	72.58	64.16	58.07	12.83	70.90	YES
	A2409.5	70.63	74.75	70.5	57.04	36.35	10.58	8.56	69.35	64.16	55.48	12.83	68.31	YES

III Semester - Lab Courses															
Simulation Lab (A2410)	A2410.1									99.24	93.08	79.39	18.62	98.01	YES
	A2410.2									99.24	93.08	79.39	18.62	98.01	YES
	A2410.3									99.24	93.08	79.39	18.62	98.01	YES
	A2410.4									99.24	93.08	79.39	18.62	98.01	YES
	A2410.5									99.24	93.08	79.39	18.62	98.01	YES
Electronic Circuit Analysis Laboratory (A2411)	A2411.1									96.92	79.84	77.54	15.97	93.50	YES
	A2411.2									96.92	79.84	77.54	15.97	93.50	YES
	A2411.3									96.92	79.84	77.54	15.97	93.50	YES
	A2411.4									96.92	79.84	77.54	15.97	93.50	YES
IV Semester - Theory Courses															
Managerial Economics and Financial Analysis (A2012)	A2012.1	63.64		90.71	72.1	31.82	13.61	10.82	70.30	55.43	56.24	11.09	67.33	YES	
	A2012.2	58.93		90.71	72.1	29.47	13.61	10.82	67.36	55.43	53.89	11.09	64.97	YES	
	A2012.3		78.51	90.71	72.1	39.26	13.61	10.82	79.60	55.43	63.68	11.09	74.76	YES	
	A2012.4		89.43	90.71	72.1	44.72	13.61	10.82	86.42	55.43	69.14	11.09	80.22	YES	
	A2012.5		80.91	90.71	72.1	40.46	13.61	10.82	81.10	55.43	64.88	11.09	75.96	YES	
Computer Organization and Architecture (A2510)	A2510.1	74.52		70.25	55.07	37.26	10.54	8.26	70.07	40.36	56.06	8.07	64.13	YES	
	A2510.2	70.08	78.47	70.25	55.07	37.14	10.54	8.26	69.92	40.36	55.94	8.07	64.01	YES	
	A2510.3	68.55		70.25	55.07	34.28	10.54	8.26	66.34	40.36	53.07	8.07	61.15	YES	
	A2510.4	67.91	71.93	70.25	55.07	34.96	10.54	8.26	67.20	40.36	53.76	8.07	61.83	YES	

	A2510.5		75.4	70.25	55.07	37.70	10.54	8.26	70.62	40.36	56.50	8.07	64.57	YES
Principles of Electrical Engineering (A2212)	A2212.1	66.76		75.81	48.19	33.38	11.37	7.23	64.98	62.55	51.98	12.51	64.49	YES
	A2212.2	81.13		75.81	48.19	40.57	11.37	7.23	73.96	62.55	59.17	12.51	71.68	YES
	A2212.3		59.05	75.81	48.19	29.53	11.37	7.23	60.16	62.55	48.13	12.51	60.64	YES
	A2212.4		48.14	75.81	48.19	24.07	11.37	7.23	53.34	62.55	42.67	12.51	55.18	NO
Pulse and Digital Circuits (A2412)	A2412.1	65.76		86.43	81.82	32.88	12.96	12.27	72.65	47.45	58.12	9.49	67.61	YES
	A2412.2	26.79		86.43	81.82	13.40	12.96	12.27	48.29	47.45	38.63	9.49	48.12	NO
	A2412.3		73.27	86.43	81.82	36.64	12.96	12.27	77.34	47.45	61.87	9.49	71.36	YES
	A2412.4		84.58	86.43	81.82	42.29	12.96	12.27	84.41	47.45	67.53	9.49	77.02	YES
Electromagnetic Theory and Transmission lines (A2413)	A2413.1	65.6		93.19	61.37	32.80	13.98	9.21	69.98	33.20	55.98	6.64	62.62	YES
	A2413.2		93.37	93.19	61.37	46.69	13.98	9.21	87.34	33.20	69.87	6.64	76.51	YES
	A2413.3		87.25	93.19	61.37	43.63	13.98	9.21	83.51	33.20	66.81	6.64	73.45	YES
	A2413.4		84.73	93.19	61.37	42.37	13.98	9.21	81.94	33.20	65.55	6.64	72.19	YES
Analog Communications (A2414)	A2414.1	82.69	90.68	93.24	64.86	43.34	13.99	9.73	83.82	58.40	67.06	11.68	78.74	YES
	A2414.2	66.51	62.39	93.24	64.86	32.23	13.99	9.73	69.93	58.40	55.94	11.68	67.62	YES
	A2414.3		78.15	93.24	64.86	39.08	13.99	9.73	78.49	58.40	62.79	11.68	74.47	YES
	A2414.4		82.18	93.24	64.86	41.09	13.99	9.73	81.01	58.40	64.81	11.68	76.49	YES
IV Semester - Lab Courses														
Electrical Engineering Lab (A2215)	A2215.1								99.24	97.65	79.39	19.53	98.92	YES
	A2215.2								99.24	97.65	79.39	19.53	98.92	YES

	A2215.3								99.24	97.65	79.39	19.53	98.92	YES
	A2215.4								99.24	97.65	79.39	19.53	98.92	YES
Pulse and Digital Circuits Lab (A2416)	A2416.1								94.60	91.47	75.68	18.29	93.97	YES
	A2416.2								94.60	91.47	75.68	18.29	93.97	YES
	A2416.3								94.60	91.47	75.68	18.29	93.97	YES
	A2416.4								94.60	91.47	75.68	18.29	93.97	YES
V Semester - Theory Courses														
Object Oriented Programming through JAVA (A2508)	A2508.1	54.84		79.42	69.93	27.42	11.91	10.49	62.28	58.55	49.82	11.71	61.53	YES
	A2508.2		58.39	79.42	69.93	29.20	11.91	10.49	64.50	58.55	51.60	11.71	63.31	YES
	A2508.3			79.42	69.93		11.91	10.49	28.00	58.55	22.40	11.71	34.11	NO
	A2508.4	54.84	58.39	79.42	69.93	28.31	11.91	10.49	63.39	58.55	50.71	11.71	62.42	YES
	A2508.5	67.41		79.42	69.93	33.71	11.91	10.49	70.13	58.55	56.11	11.71	67.82	YES
Digital Design through Verilog HDL (A2417)	A2417.1	56.13	79.59	84.06	66.67	33.93	12.61	10.00	70.67	42.85	56.54	8.57	65.11	YES
	A2417.2	67.46		84.06	66.67	33.73	12.61	10.00	70.42	42.85	56.34	8.57	64.91	YES
	A2417.3	54.09	63.26	84.06	66.67	29.34	12.61	10.00	64.93	42.85	51.95	8.57	60.52	YES
	A2417.4	77.72	65.61	84.06	66.67	35.83	12.61	10.00	73.05	42.85	58.44	8.57	67.01	YES
Integrated Circuit Analysis (A2418)	A2418.1	71.6	75.77	90.97	66.67	36.84	13.65	10.00	75.61	62.90	60.49	12.58	73.07	YES
	A2418.2	33.71	70.79	90.97	66.67	26.13	13.65	10.00	62.21	62.90	49.77	12.58	62.35	YES
	A2418.3	73.44	73.55	90.97	66.67	36.75	13.65	10.00	75.49	62.90	60.39	12.58	72.97	YES
	A2418.4		62.71	90.97	66.67	31.36	13.65	10.00	68.75	62.90	55.00	12.58	67.58	YES

Microprocessors Interfacing (A2419)	A2419.1	70.55	40.8	50.91	64.49	27.84	7.64	9.67	56.43	57.45	45.15	11.49	56.64	NO
	A2419.2		70.78	50.91	64.49	35.39	7.64	9.67	65.88	57.45	52.70	11.49	64.19	YES
	A2419.3	67.56	72.01	50.91	64.49	34.89	7.64	9.67	65.25	57.45	52.20	11.49	63.69	YES
	A2419.4		55.57	50.91	64.49	27.79	7.64	9.67	56.37	57.45	45.10	11.49	56.59	NO
	A2419.5		66.67	50.91	64.49	33.34	7.64	9.67	63.31	57.45	50.65	11.49	62.14	YES
Digital Communications (A2420)	A2420.1			67.52	47.10		10.13	7.07	21.49	64.35	17.19	12.87	30.06	NO
	A2420.2	75.94		67.52	47.10	37.97	10.13	7.07	68.95	64.35	55.16	12.87	68.03	YES
	A2420.3	73.27	70.6	67.52	47.10	35.97	10.13	7.07	66.45	64.35	53.16	12.87	66.03	YES
	A2420.4	74.33	76.52	67.52	47.10	37.71	10.13	7.07	68.63	64.35	54.91	12.87	67.78	YES
	A2420.5		72.75	67.52	47.10	36.38	10.13	7.07	66.96	64.35	53.57	12.87	66.44	YES
Antennas and Wave Propagation (A2421)	A2421.1	81.13		75.64	65.58	40.57	11.35	9.84	77.19	30.80	61.75	6.16	67.91	YES
	A2421.2	64.99		75.64	65.58	32.50	11.35	9.84	67.10	30.80	53.68	6.16	59.84	NO
	A2421.3	69.75	52.58	75.64	65.58	30.58	11.35	9.84	64.71	30.80	51.77	6.16	57.93	NO
	A2421.4		56.13	75.64	65.58	28.07	11.35	9.84	61.56	30.80	49.25	6.16	55.41	NO
V Semester - Lab Courses														
Integrated Circuit Analysis Lab (A2422)	A2422.1								98.48	95.31	78.78	19.06	97.85	YES
	A2422.2								98.48	95.31	78.78	19.06	97.85	YES
	A2422.3								98.48	95.31	78.78	19.06	97.85	YES
	A2422.4								98.48	95.31	78.78	19.06	97.85	YES
Microprocessors	A2424.1								98.48	100.00	78.78	20.00	98.78	YES

and Interfacing Lab (A2424)	A2424.2								98.48	100.00	78.78	20.00	98.78	YES
	A2424.3								98.48	100.00	78.78	20.00	98.78	YES
	A2424.4								98.48	100.00	78.78	20.00	98.78	YES
VI Semester - Theory Courses														
Professional Ethics and Human Values (A2015)	A2015.1	60.71		93.48	66.91	30.36	14.02	10.04	68.02	82.60	54.41	16.52	70.93	YES
	A2015.2	48.91		93.48	66.91	24.46	14.02	10.04	60.64	82.60	48.51	16.52	65.03	YES
	A2015.3		89.97	93.48	66.91	44.99	14.02	10.04	86.30	82.60	69.04	16.52	85.56	YES
	A2015.4	61.51		93.48	66.91	30.76	14.02	10.04	68.52	82.60	54.81	16.52	71.33	YES
	A2015.5			93.48	66.91		14.02	10.04	30.07	82.60	24.06	16.52	40.58	NO
Control Systems (A2209)	A2209.1	93.54		91.64	60.58	46.77	13.75	9.09	87.00	53.45	69.60	10.69	80.29	YES
	A2209.2	91.13		91.64	60.58	45.57	13.75	9.09	85.50	53.45	68.40	10.69	79.09	YES
	A2209.3		92.36	91.64	60.58	46.18	13.75	9.09	86.27	53.45	69.01	10.69	79.70	YES
	A2209.4		86.16	91.64	60.58	43.08	13.75	9.09	82.39	53.45	65.91	10.69	76.60	YES
	A2209.5		91.00	91.64	60.58	45.50	13.75	9.09	85.42	53.45	68.33	10.69	79.02	YES
Embedded Systems (A2425)	A2425.1	71.60	78.59	94.20	84.31	37.55	14.13	12.65	80.41	77.15	64.32	15.43	79.75	YES
	A2425.2	61.74		94.20	84.31	30.87	14.13	12.65	72.06	77.15	57.65	15.43	73.08	YES
	A2425.3	70.68	86.57	94.20	84.31	39.31	14.13	12.65	82.61	77.15	66.09	15.43	81.52	YES
	A2425.4		85.38	94.20	84.31	42.69	14.13	12.65	86.83	77.15	69.47	15.43	84.90	YES
	A2425.5	65.68		94.20	84.31	32.84	14.13	12.65	74.52	77.15	59.62	15.43	75.05	YES
VLSI Design	A2426.1	66.85		81.52	86.86	33.43	12.23	13.03	73.35	60.00	58.68	12.00	70.68	YES

(A2426)	A2426.2	74.62		81.52	86.86	37.31	12.23	13.03	78.21	60.00	62.57	12.00	74.57	YES
	A2426.3		75.85	81.52	86.86	37.93	12.23	13.03	78.98	60.00	63.18	12.00	75.18	YES
	A2426.4		60.01	81.52	86.86	30.01	12.23	13.03	69.08	60.00	55.26	12.00	67.26	YES
	A2426.5		71.7	81.52	86.86	35.85	12.23	13.03	76.38	60.00	61.11	12.00	73.11	YES
Digital Signal Processing (A2427)	A2427.1	72.16		72.83	64.73	36.08	10.92	9.71	70.89	53.10	56.71	10.62	67.33	YES
	A2427.2	69.19		72.83	64.73	34.60	10.92	9.71	69.04	53.10	55.23	10.62	65.85	YES
	A2427.3		86.97	72.83	64.73	43.49	10.92	9.71	80.15	53.10	64.12	10.62	74.74	YES
	A2427.4		76.13	72.83	64.73	38.07	10.92	9.71	73.37	53.10	58.70	10.62	69.32	YES
	A2427.5		79.16	72.83	64.73	39.58	10.92	9.71	75.27	53.10	60.21	10.62	70.83	YES
Entrepreneurship (A2017)	A2017.1	85.69		94.20	72.73	42.85	14.13	10.91	84.86	34.55	67.88	6.91	74.79	YES
	A2017.2	80.90		94.20	72.73	40.45	14.13	10.91	81.86	34.55	65.49	6.91	72.40	YES
	A2017.3	71.31	96.88	94.20	72.73	42.05	14.13	10.91	83.86	34.55	67.09	6.91	74.00	YES
	A2017.4		93.06	94.20	72.73	46.53	14.13	10.91	89.46	34.55	71.57	6.91	78.48	YES
	A2017.5		92.53	94.20	72.73	46.27	14.13	10.91	89.13	34.55	71.30	6.91	78.21	YES
VI Semester - Lab Courses														
Embedded Systems Lab (A2428)	A2428.1								96.92	93.84	77.54	18.77	96.30	YES
	A2428.2								96.92	93.84	77.54	18.77	96.30	YES
	A2428.3								96.92	93.84	77.54	18.77	96.30	YES
	A2428.4								96.92	93.84	77.54	18.77	96.30	YES
Analog And Digital	A2429.1								96.16	95.39	76.93	19.08	96.01	YES

Communications Lab (A2429)	A2429.2								96.16	95.39	76.93	19.08	96.01	YES
	A2429.3								96.16	95.39	76.93	19.08	96.01	YES
	A2429.4								96.16	95.39	76.93	19.08	96.01	YES
	A2429.5								96.16	95.39	76.93	19.08	96.01	YES
VII Semester - Theory Courses														
Computer Networks (A2602)	A2602.1	65.87		56.62	68.5	32.94	8.49	10.28	64.63	47.45	51.70	9.49	61.19	YES
	A2602.2	65.97		56.62	68.5	32.99	8.49	10.28	64.69	47.45	51.75	9.49	61.24	YES
	A2602.3	56.37	70.14	56.62	68.5	31.63	8.49	10.28	62.99	47.45	50.40	9.49	59.89	NO
	A2602.4		61.10	56.62	68.5	30.55	8.49	10.28	61.65	47.45	49.32	9.49	58.81	NO
	A2602.5		57.57	56.62	68.5	28.79	8.49	10.28	59.44	47.45	47.55	9.49	57.04	NO
Electronic Measurements and Instrumentation (A2430)	A2430.1	86.79	53.16	70.70	69.06	34.99	10.61	10.36	69.94	58.40	55.95	11.68	67.63	YES
	A2430.2	88.44	77.78	70.70	69.06	41.56	10.61	10.36	78.15	58.40	62.52	11.68	74.20	YES
	A2430.3	69.01		70.70	69.06	34.51	10.61	10.36	69.34	58.40	55.47	11.68	67.15	YES
	A2430.4		72.00	70.70	69.06	36.00	10.61	10.36	71.21	58.40	56.96	11.68	68.64	YES
	A2430.5		30.5	70.70	69.06	15.25	10.61	10.36	45.27	58.40	36.21	11.68	47.89	NO
Microwave Engineering (A2431)	A2431.1	46.85		76.56	74.26	23.43	11.48	11.14	57.56	73.70	46.05	14.74	60.79	YES
	A2431.2	46.36	95.00	76.56	74.26	35.34	11.48	11.14	72.45	73.70	57.96	14.74	72.70	YES
	A2431.3		86.50	76.56	74.26	43.25	11.48	11.14	82.34	73.70	65.87	14.74	80.61	YES
	A2431.4			76.56	74.26		11.48	11.14	28.28	73.70	22.62	14.74	37.36	NO
Cellular and Mobile	A2432.1	50.95		48.54	82.05	25.48	7.28	12.31	56.33	64.10	45.06	12.82	57.88	NO

Communications (A2432)	A2432.2			48.54	82.05		7.28	12.31	24.49	64.10	19.59	12.82	32.41	NO
	A2432.3		60.67	48.54	82.05	30.34	7.28	12.31	62.40	64.10	49.92	12.82	62.74	YES
	A2432.4	72.55	49.99	48.54	82.05	30.64	7.28	12.31	62.78	64.10	50.22	12.82	63.04	YES
	A2432.5	45.8	78.96	48.54	82.05	31.19	7.28	12.31	63.47	64.10	50.78	12.82	63.60	YES
Database Management Systems (A2514)	A2415.1	86.68		74.55	61.48	43.34	11.18	9.22	79.68	31.15	63.75	6.23	69.98	YES
	A2415.2	84.67		74.55	61.48	42.34	11.18	9.22	78.42	31.15	62.74	6.23	68.97	YES
	A2415.3		64.42	74.55	61.48	32.21	11.18	9.22	65.77	31.15	52.61	6.23	58.84	NO
	A2415.4		73.92	74.55	61.48	36.96	11.18	9.22	71.71	31.15	57.37	6.23	63.60	YES
	A2415.5		82.69	74.55	61.48	41.35	11.18	9.22	77.19	31.15	61.75	6.23	67.98	YES
Digital Image Processing (A2435)	A2435.1	72.94		75.64	74.73	36.47	11.35	11.21	73.78	54.75	59.03	10.95	69.98	YES
	A2435.2		85.04	75.64	74.73	42.52	11.35	11.21	81.34	54.75	65.08	10.95	76.03	YES
	A2435.3	61.17		75.64	74.73	30.59	11.35	11.21	66.43	54.75	53.14	10.95	64.09	YES
	A2435.4	81.98	84.81	75.64	74.73	41.70	11.35	11.21	80.32	54.75	64.25	10.95	75.20	YES
	A2435.5	58.31	87.92	75.64	74.73	36.56	11.35	11.21	73.89	54.75	59.11	10.95	70.06	YES
VII Semester - Lab Courses, Mini Project														
VLSI Lab (A2439)	A2439.1								93.84	90.00	75.07	18.00	93.07	YES
	A2439.2								93.84	90.00	75.07	18.00	93.07	YES
	A2439.3								93.84	90.00	75.07	18.00	93.07	YES
	A2439.4								93.84	90.00	75.07	18.00	93.07	YES
Digital Signal	A2440.1								97.68	97.69	78.14	19.54	97.68	YES

Processing-Lab (A2440)	A2440.2								97.68	97.69	78.14	19.54	97.68	YES
	A2440.3								97.68	97.69	78.14	19.54	97.68	YES
	A2440.4								97.68	97.69	78.14	19.54	97.68	YES
	A2440.5								97.68	97.69	78.14	19.54	97.68	YES
Mini Project (A2441)	A2441.1									100.00		100.00	100.00	YES
	A2441.2									100.00		100.00	100.00	YES
	A2441.3									100.00		100.00	100.00	YES
	A2441.4									100.00		100.00	100.00	YES
	A2441.5									100.00		100.00	100.00	YES
VIII Semester - Theory Courses														
Satellite and Radar Communications (A2442)	A2442.1	69.63	51.72	53.48	63.97	30.34	8.02	9.60	59.94	63.65	47.96	12.73	60.69	YES
	A2442.2	65.8	48.28	53.48	63.97	28.52	8.02	9.60	57.67	63.65	46.14	12.73	58.87	NO
	A2442.3		57.09	53.48	63.97	28.55	8.02	9.60	57.70	63.65	46.16	12.73	58.89	NO
	A2442.4		44.02	53.48	63.97	22.01	8.02	9.60	49.53	63.65	39.63	12.73	52.36	NO
Low Power VLSI Design (A2443)	A2443.1	82.24	80.95	58.49	50.00	40.80	8.77	7.50	71.34	60.40	57.07	12.08	69.15	YES
	A2443.2	45.71	83.96	58.49	50.00	32.42	8.77	7.50	60.86	60.40	48.69	12.08	60.77	YES
	A2443.3	59.85		58.49	50.00	29.93	8.77	7.50	57.75	60.40	46.20	12.08	58.28	NO
	A2443.4	90.25	77.79	58.49	50.00	42.01	8.77	7.50	72.85	60.40	58.28	12.08	70.36	YES
	A2443.5	25.00	84.57	58.49	50.00	27.39	8.77	7.50	54.58	60.40	43.67	12.08	55.75	NO
Wireless	A2444.1	61.12		67.42	56.18	30.56	10.11	8.43	61.38	67.40	49.10	13.48	62.58	YES

Communications and Networks (A2444)	A2444.2	75.64		67.42	56.18	37.82	10.11	8.43	70.45	67.40	56.36	13.48	69.84	YES
	A2444.3		81.34	67.42	56.18	40.67	10.11	8.43	74.01	67.40	59.21	13.48	72.69	YES
	A2444.4		87.79	67.42	56.18	43.90	10.11	8.43	78.04	67.40	62.44	13.48	75.92	YES
DSP Processors and Architectures (A2445)	A2445.1	92.4	93.1	93.02	81.40	46.38	13.95	12.21	90.67	90.90	72.54	18.18	90.72	YES
	A2445.2	84.82	97.92	93.02	81.40	45.69	13.95	12.21	89.81	90.90	71.85	18.18	90.03	YES
	A2445.3	79.79	91.57	93.02	81.40	42.84	13.95	12.21	86.25	90.90	69.00	18.18	87.18	YES
	A2445.4	95.65		93.02	81.40	47.83	13.95	12.21	92.49	90.90	73.99	18.18	92.17	YES
Speech Signal Processing (A2451)	A2451.1	55.68		26.95	78.47	27.84	4.04	11.77	54.57	72.25	43.65	14.45	58.10	NO
	A2451.2	45.6		26.95	78.47	22.80	4.04	11.77	48.27	72.25	38.61	14.45	53.06	NO
	A2451.3		67.13	26.95	78.47	33.57	4.04	11.77	61.72	72.25	49.38	14.45	63.83	YES
	A2451.4		67.92	26.95	78.47	33.96	4.04	11.77	62.22	72.25	49.77	14.45	64.22	YES
VIII Semester - Lab Courses, Technical Seminars, Comprehensive Viva, Project Work														
Advanced Communications And Virtual Instrumentation Lab (A2455)	A2455.1								100.00	100.00	80.00	20.00	100.00	YES
	A2455.2								100.00	100.00	80.00	20.00	100.00	YES
	A2455.3								100.00	100.00	80.00	20.00	100.00	YES
	A2455.4								100.00	100.00	80.00	20.00	100.00	YES
Technical Seminar (A2456)	A2456.1								100.00		100.00		100.00	YES
	A2456.2								100.00		100.00		100.00	YES
	A2456.3								100.00		100.00		100.00	YES
	A2456.4								100.00		100.00		100.00	YES

	A2456.5								100.00		100.00		100.00	YES
Comprehensive Viva (A2457)	A2457.1									100.00		100.00	100.00	YES
	A2457.2									100.00		100.00	100.00	YES
	A2457.3									100.00		100.00	100.00	YES
	A2457.4									100.00		100.00	100.00	YES
	A2457.5									100.00		100.00	100.00	YES
Project Work (A2458)	A2458.1								97.68	100.00	78.14	20.00	98.14	YES
	A2458.2								97.68	100.00	78.14	20.00	98.14	YES
	A2458.3								97.68	100.00	78.14	20.00	98.14	YES
	A2458.4								97.68	100.00	78.14	20.00	98.14	YES
	A2458.5								97.68	100.00	78.14	20.00	98.14	YES

Summary of CO Attainment

Total No. of COs in the Program	310
No. of COs are attained	268
No. of COs are not attained	42
% of COs are attained	86.45%
% of COs are not attained	13.55%

Overall CO Attainments

Course Name	Course Outcomes	CO Attainment Through Direct Assessment (100%)	CO Attainment Through Direct Assessment (90%)	CO Attainment Through In Direct Assessment (100%)	CO Attainment Through In Direct Assessment (10%)	Overall CO Attainment (100%)	Attainment Achieved (YES/NO)
I Semester Theory Courses							
Mathematics - I (A2001)	A2001.1	62.25	56.03	88.82	8.88	64.91	YES
	A2001.2	54.93	49.44	82.27	8.23	57.66	NO
	A2001.3	69.65	62.69	87.64	8.76	71.45	YES
	A2001.4	66.87	60.18	87.73	8.77	68.96	YES
	A2001.5	60.61	54.55	84.18	8.42	62.97	YES
Engineering Physics (A2002)	A2002.1	72.10	64.89	91.36	9.14	74.03	YES
	A2002.2	68.11	61.30	85.64	8.56	69.86	YES
	A2002.3	75.05	67.55	85.64	8.56	76.11	YES
	A2002.4	64.92	58.43	84.36	8.44	66.86	YES
	A2002.5	76.71	69.04	88.55	8.86	77.89	YES
Engineering Chemistry (A2003)	A2003.1	70.79	63.71	88.36	8.84	72.55	YES
	A2003.2	66.96	60.26	92.45	9.25	69.51	YES
	A2003.3	75.69	68.12	90.36	9.04	77.16	YES
	A2003.4	62.84	56.56	88.55	8.86	65.41	YES

	A2003.5	63.01	56.71	83.18	8.32	65.03	YES
Computer Programming (A2501)	A2501.1	50.03	45.03	81.82	8.18	53.21	NO
	A2501.2	35.94	32.35	84.55	8.46	40.80	NO
	A2501.3	55.28	49.75	89.09	8.91	58.66	NO
	A2501.4	50.56	45.50	87.73	8.77	54.28	NO
	A2501.5	59.69	53.72	87.27	8.73	62.45	YES
	A2501.6	41.40	37.26	88.00	8.80	46.06	NO
Basic Electrical Engineering (A2201)	A2201.1	45.15	40.64	90.91	9.09	49.73	NO
	A2201.2	65.75	59.18	85.55	8.56	67.73	YES
	A2201.3	73.95	66.56	89.91	8.99	75.55	YES
	A2201.4	46.85	42.17	87.27	8.73	50.89	NO
I Semester Lab Courses							
Engineering Physics and Engineering Chemistry Laboratory (A2008)	A2008.1	100.00	90.00	86.45	8.65	98.65	YES
	A2008.2	100.00	90.00	83.13	8.31	98.31	YES
	A2008.3	100.00	90.00	82.24	8.22	98.22	YES
	A2008.4	100.00	90.00	85.06	8.51	98.51	YES
	A2008.5	100.00	90.00	83.83	8.38	98.38	YES
Computer Programming Lab (A2502)	A2502.1	100.00	90.00	84.57	8.46	98.46	YES
	A2502.2	100.00	90.00	87.56	8.76	98.76	YES
	A2502.3	100.00	90.00	84.81	8.48	98.48	YES

	A2502.4	100.00	90.00	86.98	8.70	98.70	YES
	A2502.5	100.00	90.00	87.11	8.71	98.71	YES
Computer Aided Engineering Drawing Lab (A2306)	A2306.1	90.15	81.14	88.25	8.83	89.96	YES
	A2306.2	90.15	81.14	88.13	8.81	89.95	YES
	A2306.3	90.15	81.14	81.4	8.14	89.28	YES
	A2306.4	90.15	81.14	84.91	8.49	89.63	YES
	A2306.5	90.15	81.14	83.42	8.34	89.48	YES
II Semester Theory Courses							
Technical English (A2005)	A2005.1	76.86	69.17	82.58	8.26	77.43	YES
	A2005.2	91.14	82.03	79.52	7.95	89.98	YES
	A2005.3	92.84	83.56	81.24	8.12	91.68	YES
	A2005.4	73.18	65.86	78.66	7.87	73.73	YES
	A2005.5	53.31	47.98	87.94	8.79	56.77	NO
Mathematics - II (A2006)	A2006.1	57.05	51.35	82.3	8.23	59.58	NO
	A2006.2	54.49	49.04	90.24	9.02	58.07	NO
	A2006.3	69.04	62.14	81.34	8.13	70.27	YES
	A2006.4	66.2	59.58	78.47	7.85	67.43	YES
	A2006.5	50.25	45.23	87.66	8.77	53.99	NO
Numerical Methods (A2007)	A2007.1	66.98	60.28	84.88	8.49	68.77	YES
	A2007.2	81.99	73.79	75.6	7.56	81.35	YES

	A2007.3	77.38	69.64	94.26	9.43	79.07	YES
	A2007.4	80.28	72.25	82.39	8.24	80.49	YES
	A2007.5	50.00	45.00	90.43	9.04	54.04	NO
Data Structures through C (A2503)	A2503.1	70.39	63.35	82.97	8.30	71.65	YES
	A2503.2	71.17	64.05	82.39	8.24	72.29	YES
	A2503.3	75.13	67.62	92.34	9.23	76.85	YES
	A2503.4	71.53	64.38	88.42	8.84	73.22	YES
	A2503.5	57.77	51.99	86.32	8.63	60.63	YES
Electronic Devices (A2401)	A2401.1	61.51	55.36	77.89	7.79	63.15	YES
	A2401.2	68.05	61.25	89.00	8.90	70.15	YES
	A2401.3	63.08	56.77	88.04	8.80	65.58	YES
	A2401.4	51.43	46.29	89.09	8.91	55.20	NO
	A2401.5	63.81	57.43	79.23	7.92	65.35	YES
II Semester Lab Courses							
English Language Communication Skills Laboratory (A2009)	A2009.1	100.00	90.00	87.75	8.78	98.78	YES
	A2009.2	100.00	90.00	89.57	8.96	98.96	YES
	A2009.3	100.00	90.00	82.49	8.25	98.25	YES
	A2009.4	100.00	90.00	83.06	8.31	98.31	YES
	A2009.5	100.00	90.00	91.10	9.11	99.11	YES
Data Structures	A2504.1	100.00	90.00	87.46	8.75	98.75	YES

through C Lab (A2504)	A2504.2	100.00	90.00	82.97	8.30	98.30	YES
	A2504.3	100.00	90.00	90.05	9.01	99.01	YES
	A2504.4	100.00	90.00	89.76	8.98	98.98	YES
	A2504.5	100.00	90.00	79.14	7.91	97.91	YES
Electronic Devices Lab (A2405)	A2405.1	100.00	90.00	84.40	8.44	98.44	YES
	A2405.2	100.00	90.00	74.93	7.49	97.49	YES
	A2405.3	100.00	90.00	89.76	8.98	98.98	YES
	A2405.4	100.00	90.00	80.86	8.09	98.09	YES
	A2405.5	100.00	90.00	85.65	8.57	98.57	YES
III Semester Theory Courses							
Mathematics III (A2010)	A2010.1	69.72	62.75	83.85	8.39	71.13	YES
	A2010.2	64.80	58.32	82.94	8.29	66.61	YES
	A2010.3	70.77	63.69	82.94	8.29	71.99	YES
	A2010.4	62.71	56.44	79.32	7.93	64.37	YES
	A2010.5	66.21	59.59	80.60	8.06	67.65	YES
Environmental Science (A2011)	A2011.1	79.97	71.97	81.43	8.14	80.12	YES
	A2011.2	70.79	63.71	78.34	7.83	71.55	YES
	A2011.3	81.66	73.49	85.43	8.54	82.04	YES
	A2011.4	33.33	30.00	84.53	8.45	38.45	NO

	A2011.5	74.83	67.35	80.3	8.03	75.38	YES
Digital Logic Design (A2406)	A2406.1	68.35	61.52	75.55	7.56	69.07	YES
	A2406.2	69.12	62.21	77.74	7.77	69.98	YES
	A2406.3	65.93	59.34	81.58	8.16	67.50	YES
	A2406.4	61.66	55.49	78.79	7.88	63.37	YES
	A2406.5	64.61	58.15	85.58	8.56	66.71	YES
Signals and Systems (A2407)	A2010.1	69.45	62.51	81.06	8.11	70.61	YES
	A2010.2	68.55	61.70	83.25	8.33	70.02	YES
	A2010.3	60.42	54.38	78.64	7.86	62.24	YES
	A2010.4	63.98	57.58	84.00	8.40	65.98	YES
	A2010.5	67.79	61.01	81.13	8.11	69.12	YES
Probability Theory And Stochastic Processes (A2408)	A2408.1	66.99	60.29	82.04	8.20	68.50	YES
	A2408.2	69.82	62.84	79.62	7.96	70.80	YES
	A2408.3	65.06	58.55	83.77	8.38	66.93	YES
	A2408.4	66.92	60.23	79.09	7.91	68.14	YES
	A2408.5	73.90	66.51	84.60	8.46	74.97	YES
Electronic Circuit Analysis (A2409)	A2409.1	75.75	68.18	84.53	8.45	76.63	YES
	A2409.2	67.79	61.01	80.83	8.08	69.09	YES
	A2409.3	75.71	68.14	79.09	7.91	76.05	YES

	A2409.4	70.90	63.81	83.92	8.39	72.20	YES
	A2409.5	68.31	61.48	77.66	7.77	69.25	YES
III Semester Lab Courses							
Simulation Lab (A2410)	A2410.1	98.01	88.21	88.08	8.81	97.02	YES
	A2410.2	98.01	88.21	80.3	8.03	96.24	YES
	A2410.3	98.01	88.21	79.7	7.97	96.18	YES
	A2410.4	98.01	88.21	87.02	8.70	96.91	YES
	A2410.5	98.01	88.21	79.77	7.98	96.19	YES
Electronic Circuit Analysis Laboratory (A2411)	A2411.1	93.50	84.15	81.58	8.16	92.31	YES
	A2411.2	93.50	84.15	76.23	7.62	91.77	YES
	A2411.3	93.50	84.15	81.96	8.20	92.35	YES
	A2411.4	93.50	84.15	77.13	7.71	91.86	YES
IV Semester Theory Courses							
Managerial Economics and Financial Analysis (A2012)	A2012.1	67.33	60.60	84.51	8.45	69.05	YES
	A2012.2	64.97	58.47	76.13	7.61	66.09	YES
	A2012.3	74.76	67.28	83.08	8.31	75.59	YES
	A2012.4	80.22	72.20	82.69	8.27	80.47	YES
	A2012.5	75.96	68.36	80.47	8.05	76.41	YES
Computer Organization and Architecture	A2510.1	64.13	57.72	81.34	8.13	65.85	YES
	A2510.2	64.01	57.61	82.85	8.29	65.89	YES

(A2510)	A2510.3	61.15	55.04	85.69	8.57	63.60	YES
	A2510.4	61.83	55.65	78.81	7.88	63.53	YES
	A2510.5	64.57	58.11	81.82	8.18	66.30	YES
Principles of Electrical Engineering (A2212)	A2212.1	64.49	58.04	83.16	8.32	66.36	YES
	A2212.2	71.68	64.51	82.29	8.23	72.74	YES
	A2212.3	60.64	54.58	85.69	8.57	63.15	YES
	A2212.4	55.18	49.66	82.53	8.25	57.92	NO
Pulse and Digital Circuits (A2412)	A2412.1	67.61	60.85	76.05	7.61	68.45	YES
	A2412.2	48.12	43.31	82.77	8.28	51.59	NO
	A2412.3	71.36	64.22	82.77	8.28	72.50	YES
	A2412.4	77.02	69.32	78.97	7.90	77.22	YES
Electromagnetic Theory and Transmission lines (A2413)	A2413.1	62.62	56.36	75.73	7.57	63.93	YES
	A2413.2	76.51	68.86	81.19	8.12	76.98	YES
	A2413.3	73.45	66.11	81.5	8.15	74.26	YES
	A2413.4	72.19	64.97	89.09	8.91	73.88	YES
Analog Communications (A2414)	A2414.1	78.74	70.87	84.51	8.45	79.32	YES
	A2414.2	67.62	60.86	83.4	8.34	69.20	YES
	A2414.3	74.47	67.02	85.22	8.52	75.55	YES
	A2414.4	76.49	68.84	82.85	8.29	77.13	YES
IV Semester Lab Courses							

Electrical Engineering Lab (A2215)	A2215.1	98.92	89.03	81.74	8.17	97.20	YES
	A2215.2	98.92	89.03	81.11	8.11	97.14	YES
	A2215.3	98.92	89.03	80.95	8.10	97.12	YES
	A2215.4	98.92	89.03	87.59	8.76	97.79	YES
Pulse and Digital Circuits Lab (A2416)	A2416.1	93.97	84.57	83.87	8.39	92.96	YES
	A2416.2	93.97	84.57	84.03	8.40	92.98	YES
	A2416.3	93.97	84.57	85.69	8.57	93.14	YES
	A2416.4	93.97	84.57	86.96	8.70	93.27	YES
V Semester Theory Courses							
Object Oriented Programming through JAVA (A2508)	A2508.1	61.53	55.38	85.36	8.54	63.91	YES
	A2508.2	63.31	56.98	78.11	7.81	64.79	YES
	A2508.3	34.11	30.70	82.87	8.29	38.99	NO
	A2508.4	62.42	56.18	80.68	8.07	64.25	YES
	A2508.5	67.82	61.04	84.08	8.41	69.45	YES
Digital Design through Verilog HDL (A2417)	A2417.1	65.11	58.60	83.7	8.37	66.97	YES
	A2417.2	64.91	58.42	83.47	8.35	66.77	YES
	A2417.3	60.52	54.47	82.04	8.20	62.67	YES
	A2417.4	67.01	60.31	82.57	8.26	68.57	YES
Integrated Circuit Analysis (A2418)	A2418.1	73.07	65.76	80.00	8.00	73.76	YES
	A2418.2	62.35	56.12	78.94	7.89	64.01	YES

	A2418.3	72.97	65.67	82.49	8.25	73.92	YES
	A2418.4	67.58	60.82	80.91	8.09	68.91	YES
Microprocessors Interfacing (A2419)	A2419.1	56.64	50.98	80.53	8.05	59.03	NO
	A2419.2	64.19	57.77	81.81	8.18	65.95	YES
	A2419.3	63.69	57.32	80.91	8.09	65.41	YES
	A2419.4	56.59	50.93	76.23	7.62	58.55	NO
	A2419.5	62.14	55.93	76.6	7.66	63.59	YES
Digital Communications (A2420)	A2420.1	30.06	27.05	86.11	8.61	35.67	NO
	A2420.2	68.03	61.23	77.66	7.77	68.99	YES
	A2420.3	66.03	59.43	87.17	8.72	68.14	YES
	A2420.4	67.78	61.00	83.92	8.39	69.39	YES
	A2420.5	66.44	59.80	79.32	7.93	67.73	YES
Antennas and Wave Propagation (A2421)	A2421.1	67.91	61.12	85.43	8.54	69.66	YES
	A2421.2	59.84	53.86	87.85	8.79	62.64	YES
	A2421.3	57.93	52.14	81.21	8.12	60.26	YES
	A2421.4	55.41	49.87	80.83	8.08	57.95	NO
V Semester Lab Courses							
Integrated Circuit Analysis Lab (A2422)	A2422.1	97.85	88.07	84.15	8.42	96.48	YES
	A2422.2	97.85	88.07	79.55	7.96	96.02	YES
	A2422.3	97.85	88.07	80.23	8.02	96.09	YES

	A2422.4	97.85	88.07	80.00	8.00	96.07	YES
Microprocessors and Interfacing Lab (A2424)	A2424.1	98.78	88.90	82.26	8.23	97.13	YES
	A2424.2	98.78	88.90	82.57	8.26	97.16	YES
	A2424.3	98.78	88.90	88.38	8.84	97.74	YES
	A2424.4	98.78	88.90	83.32	8.33	97.23	YES
VI Semester Theory Courses							
Professional Ethics and Human Values (A2015)	A2015.1	70.93	63.84	85.16	8.52	72.35	YES
	A2015.2	65.03	58.53	83.79	8.38	66.91	YES
	A2015.3	85.56	77.00	82.42	8.24	85.25	YES
	A2015.4	71.33	64.20	79.27	7.93	72.12	YES
	A2015.5	40.58	36.52	86.53	8.65	45.18	NO
Control Systems (A2209)	A2209.1	80.29	72.26	78.47	7.85	80.11	YES
	A2209.2	79.09	71.18	84.35	8.44	79.62	YES
	A2209.3	79.70	71.73	77.90	7.790	79.52	YES
	A2209.4	76.60	68.94	84.35	8.44	77.38	YES
	A2209.5	79.02	71.12	77.26	7.73	78.84	YES
Embedded Systems (A2425)	A2425.1	79.75	71.78	82.58	8.26	80.03	YES
	A2425.2	73.08	65.77	79.76	7.98	73.75	YES
	A2425.3	81.52	73.37	81.37	8.14	81.51	YES
	A2425.4	84.90	76.41	85.32	8.53	84.94	YES

	A2425.5	75.05	67.55	80.16	8.02	75.56	YES
VLSI Design (A2426)	A2426.1	70.68	63.61	89.44	8.94	72.56	YES
	A2426.2	74.57	67.11	86.85	8.69	75.80	YES
	A2426.3	75.18	67.66	85.73	8.57	76.24	YES
	A2426.4	67.26	60.53	82.58	8.26	68.79	YES
	A2426.5	73.11	65.80	84.35	8.44	74.23	YES
Digital Signal Processing (A2427)	A2427.1	67.33	60.60	88.31	8.83	69.43	YES
	A2427.2	65.85	59.27	83.95	8.40	67.66	YES
	A2427.3	74.74	67.27	87.5	8.75	76.02	YES
	A2427.4	69.32	62.39	84.68	8.47	70.86	YES
	A2427.5	70.83	63.75	83.71	8.37	72.12	YES
Entrepreneurship (A2017)	A2017.1	74.79	67.31	86.94	8.69	76.01	YES
	A2017.2	72.4	65.16	82.02	8.20	73.36	YES
	A2017.3	74	66.60	79.27	7.93	74.53	YES
	A2017.4	78.48	70.63	79.84	7.98	78.62	YES
	A2017.5	78.21	70.39	78.47	7.85	78.24	YES
VI Semester Lab Courses							
Embedded Systems Lab (A2428)	A2428.1	96.30	86.67	85.65	8.57	95.24	YES
	A2428.2	96.30	86.67	76.21	7.62	94.29	YES
	A2428.3	96.30	86.67	80.89	8.09	94.76	YES

	A2428.4	96.30	86.67	87.66	8.77	95.44	YES
Analog And Digital Communications Lab (A2429)	A2429.1	96.01	86.41	75.97	7.60	94.01	YES
	A2429.2	96.01	86.41	82.66	8.27	94.68	YES
	A2429.3	96.01	86.41	81.61	8.16	94.57	YES
	A2429.4	96.01	86.41	87.26	8.73	95.14	YES
	A2429.5	96.01	86.41	87.66	8.77	95.18	YES
VII Semester Theory Courses							
Computer Networks (A2602)	A2602.1	61.19	55.07	83.76	8.38	63.45	YES
	A2602.2	61.24	55.12	84.44	8.44	63.56	YES
	A2602.3	59.89	53.90	84.36	8.44	62.34	YES
	A2602.4	58.81	52.93	79.15	7.92	60.84	YES
	A2602.5	57.04	51.34	90.00	9.00	60.34	YES
Electronic Measurements and Instrumentation (A2430)	A2430.1	67.63	60.87	86.75	8.68	69.54	YES
	A2430.2	74.20	66.78	85.64	8.56	75.34	YES
	A2430.3	67.15	60.44	83.16	8.32	68.75	YES
	A2430.4	68.64	61.78	85.21	8.52	70.30	YES
	A2430.5	47.89	43.10	86.84	8.68	51.79	NO
Microwave Engineering (A2431)	A2431.1	60.79	54.71	82.31	8.23	62.94	YES
	A2431.2	72.70	65.43	87.95	8.80	74.23	YES
	A2431.3	80.61	72.55	84.02	8.40	80.95	YES

	A2431.4	37.36	33.62	84.70	8.47	42.09	NO
Cellular and Mobile Communications (A2432)	A2432.1	57.88	52.09	81.97	8.20	60.29	YES
	A2432.2	32.41	29.17	81.97	8.20	37.37	NO
	A2432.3	62.74	56.47	86.75	8.68	65.14	YES
	A2432.4	63.04	56.74	80.51	8.05	64.79	YES
	A2432.5	63.60	57.24	84.87	8.49	65.73	YES
Database Management Systems (A2514)	A2415.1	69.98	62.98	81.45	8.15	71.13	YES
	A2415.2	68.97	62.07	88.12	8.81	70.89	YES
	A2415.3	58.84	52.96	87.44	8.74	61.70	YES
	A2415.4	63.60	57.24	84.70	8.47	65.71	YES
	A2415.5	67.98	61.18	83.33	8.33	69.52	YES
Digital Image Processing (A2435)	A2435.1	69.98	62.98	86.67	8.67	71.65	YES
	A2435.2	76.03	68.43	84.87	8.49	76.91	YES
	A2435.3	64.09	57.68	78.03	7.80	65.48	YES
	A2435.4	75.2	67.68	85.98	8.60	76.28	YES
	A2435.5	70.06	63.05	82.14	8.21	71.27	YES
VII Semester Lab Courses, Mini Project							
VLSI Lab (A2439)	A2439.1	93.07	83.76	87.26	8.73	92.49	YES
	A2439.2	93.07	83.76	90.09	9.01	92.77	YES
	A2439.3	93.07	83.76	91.62	9.16	92.93	YES

	A2439.4	93.07	83.76	86.41	8.64	92.40	YES
Digital Signal Processing-Lab (A2440)	A2440.1	97.68	87.91	86.15	8.62	96.53	YES
	A2440.2	97.68	87.91	81.03	8.10	96.02	YES
	A2440.3	97.68	87.91	83.33	8.33	96.25	YES
	A2440.4	97.68	87.91	81.54	8.15	96.07	YES
	A2440.5	97.68	87.91	77.86	7.79	95.70	YES
Mini Project (A2441)	A2441.1	100.00	90.00	84.44	8.44	98.44	YES
	A2441.2	100.00	90.00	90.6	9.06	99.06	YES
	A2441.3	100.00	90.00	88.18	8.82	98.82	YES
	A2441.4	100.00	90.00	88.64	8.86	98.86	YES
	A2441.5	100.00	90.00	82.00	8.20	98.20	YES
VIII Semester Theory Courses							
Satellite and Radar Communications (A2442)	A2442.1	60.69	54.62	83.24	8.32	62.95	YES
	A2442.2	58.87	52.98	81.98	8.20	61.18	YES
	A2442.3	58.89	53.00	79.29	7.93	60.93	YES
	A2442.4	52.36	47.12	89.01	8.90	56.03	NO
Low Power VLSI Design (A2443)	A2443.1	69.15	62.24	79.68	7.97	70.20	YES
	A2443.2	60.77	54.69	80.71	8.07	62.76	YES
	A2443.3	58.28	52.45	77.94	7.79	60.25	YES
	A2443.4	70.36	63.32	84.58	8.46	71.78	YES

	A2443.5	55.75	50.18	80.63	8.06	58.24	NO
Wireless Communications and Networks (A2444)	A2444.1	62.58	56.32	86.72	8.67	64.99	YES
	A2444.2	69.84	62.86	82.92	8.29	71.15	YES
	A2444.3	72.69	65.42	84.43	8.44	73.86	YES
	A2444.4	75.92	68.33	76.84	7.68	76.01	YES
DSP Processors and Architectures (A2445)	A2445.1	90.72	81.65	80.32	8.03	89.68	YES
	A2445.2	90.03	81.03	81.82	8.18	89.21	YES
	A2445.3	87.18	78.46	85.53	8.55	87.02	YES
	A2445.4	92.17	82.95	85.30	8.53	91.48	YES
Speech Signal Processing (A2451)	A2451.1	58.10	52.29	79.37	7.94	60.23	YES
	A2451.2	53.06	47.75	81.66	8.17	55.92	NO
	A2451.3	63.83	57.45	76.76	7.68	65.12	YES
	A2451.4	64.22	57.80	83.08	8.31	66.11	YES
VIII Semester Lab Courses, Technical Seminar, Comprehensive Viva, Project Work							
Advanced Communications And Virtual Instrumentation Lab (A2455)	A2455.1	100.00	90.00	84.98	8.50	98.50	YES
	A2455.2	100.00	90.00	75.81	7.58	97.58	YES
	A2455.3	100.00	90.00	85.77	8.58	98.58	YES
	A2455.4	100.00	90.00	87.51	8.75	98.75	YES
Technical Seminar (A2456)	A2456.1	100.00	90.00	84.27	8.43	98.43	YES
	A2456.2	100.00	90.00	79.92	7.99	97.99	YES

	A2456.3	100.00	90.00	89.25	8.93	98.93	YES
	A2456.4	100.00	90.00	82.69	8.27	98.27	YES
	A2456.5	100.00	90.00	79.29	7.93	97.93	YES
Comprehensive Viva (A2457)	A2457.1	100.00	90.00	76.76	7.68	97.68	YES
	A2457.2	100.00	90.00	79.45	7.95	97.95	YES
	A2457.3	100.00	90.00	77.23	7.72	97.72	YES
	A2457.4	100.00	90.00	79.68	7.97	97.97	YES
	A2457.5	100.00	90.00	79.45	7.95	97.95	YES
Project Work (A2458)	A2458.1	98.14	88.33	78.42	7.84	96.17	YES
	A2458.2	98.14	88.33	85.14	8.51	96.84	YES
	A2458.3	98.14	88.33	79.37	7.94	96.26	YES
	A2458.4	98.14	88.33	83.40	8.34	96.67	YES
	A2458.5	98.14	88.33	80.00	8.00	96.33	YES

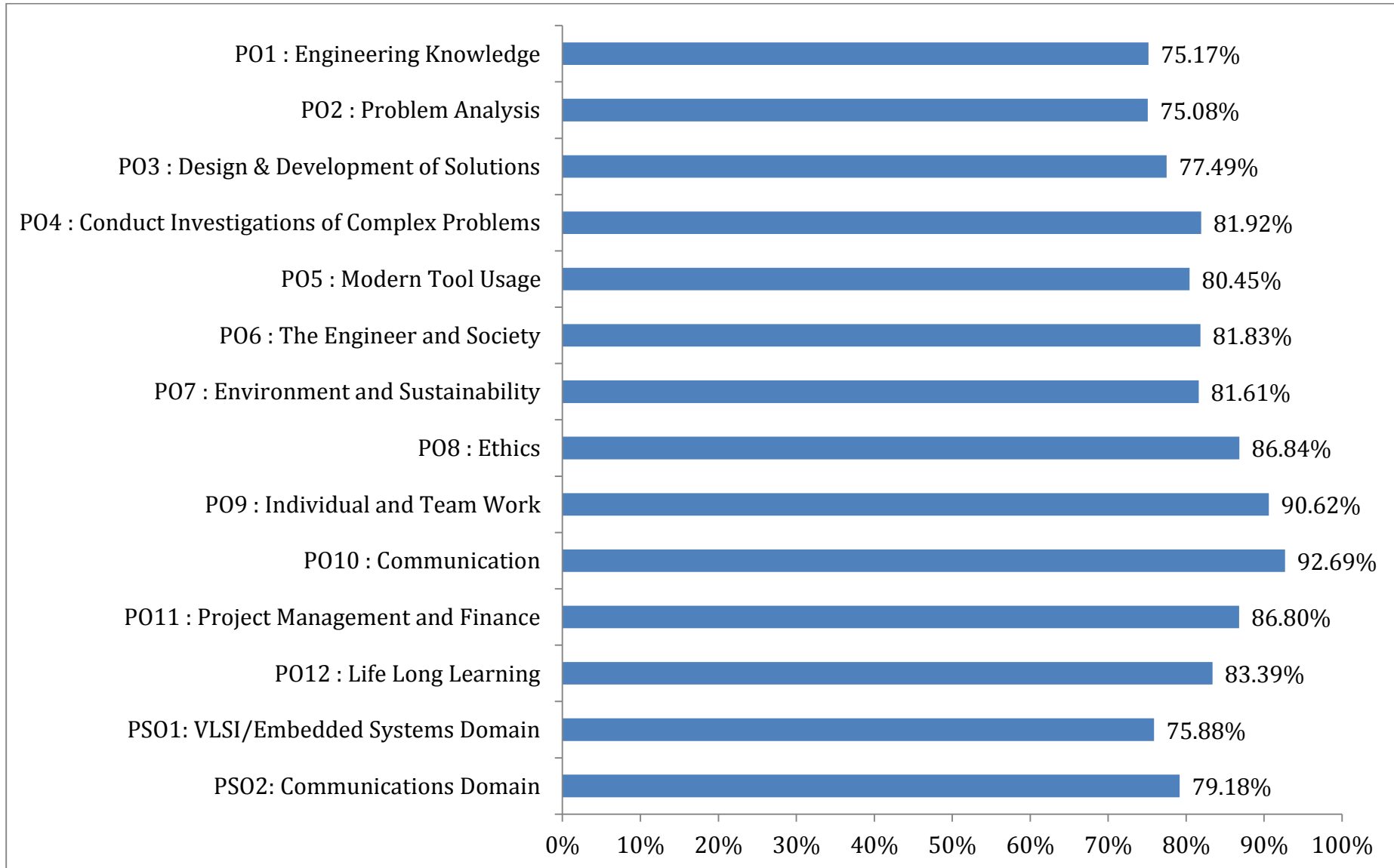
Summery of CO Attainment

Total No. of COs in the Program	310
No. of COs are attained	281
No. of COs are not attained	29
% of COs are attained	90.65%
% of COs are not attained	9.35%

S. No	Course Name	Course Code	PO Attainment through DA in %													
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
22.	Electronic Circuit Analysis	A2409	72.55	72.54	68.31	-	-	-	-	-	-	-	-	-	68.05	-
23.	Simulation Lab	A2410	94.62	94.62	94.62	94.62	-	-	-	-	-	-	-	-	-	94.62
24.	Electronic Circuit Analysis Lab	A2411	84.11	84.11	84.11	84.11	84.11	-	-	-	-	-	-	-	-	-
25.	Managerial Economics and Financial Analysis	A2012	-	-	-	-	-	-	-	-	-	-	-	75.79	-	-
26.	Computer Organization and Architecture	A2510	66.55	65.86	67.65	-	-	-	-	-	-	-	-	-	67.37	-
27.	Principles of Electrical Engineering	A2212	64.49	67.26	62.48	55.18	-	-	-	-	-	-	-	-	-	-
28.	Pulse and Digital Circuits	A2412	74.87	65.67	66.62	-	-	-	-	-	-	-	-	-	-	-
29.	Electromagnetic Theory and Transmission Lines	A2413	74.12	74.82	78.68	-	77.37	-	-	-	-	-	-	-	-	76.50
30.	Analog Communications	A2414	-	76.56	67.52	-	-	-	-	-	-	-	-	-	-	-
31.	Electrical Engineering Lab	A2215	-	-	-	98.05	98.05	-	-	-	-	-	-	-	-	-
32.	Pulse and Digital Circuits Lab	A2416	92.26	-	92.26	92.26	92.26	-	-	-	-	-	-	-	-	-
33.	Object Oriented Programming through JAVA	A2508	-	-	75.73	-	63.90	-	-	64.44	-	-	-	69.83	-	-

S. No	Course Name	Course Code	PO Attainment through DA in %													
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	Radar Communications															
59.	Low Power VLSI Design	A2443	67.10	59.52	63.30	70.36	56.24	-	-	-	-	-	-	-	56.24	-
60.	Wireless Communications and Networks	A2444	62.58	72.88	72.69	-	-	-	-	-	-	-	-	-	-	62.58
61.	DSP Processors and Architectures	A2445	88.95	91.10	-	-	-	-	-	-	-	-	-	-	87.19	-
62.	Speech Signal Processing	A2451	60.55	57.37	-	-	64.22	-	-	-	-	-	-	-	-	53.06
63.	Advanced Communications and Virtual Instrumentation Lab	A2455	100.00	100.00	100.00	100.00	100.00	-	-	-	-	-	-	-	-	100.00
64.	Technical Seminar	A2456	100.00	100.00	-	-	-	-	-	100.00	-	100.00	-	100.00	-	-
65.	Comprehensive Viva	A2457	100.00	-	100.00	-	-	-	-	-	-	100.00	100.00	100.00	-	-
66.	Project Work	A2458	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42	99.42
AVG			75.17	75.08	77.49	81.92	80.45	81.83	81.61	86.84	90.62	92.69	86.80	83.39	75.88	79.18

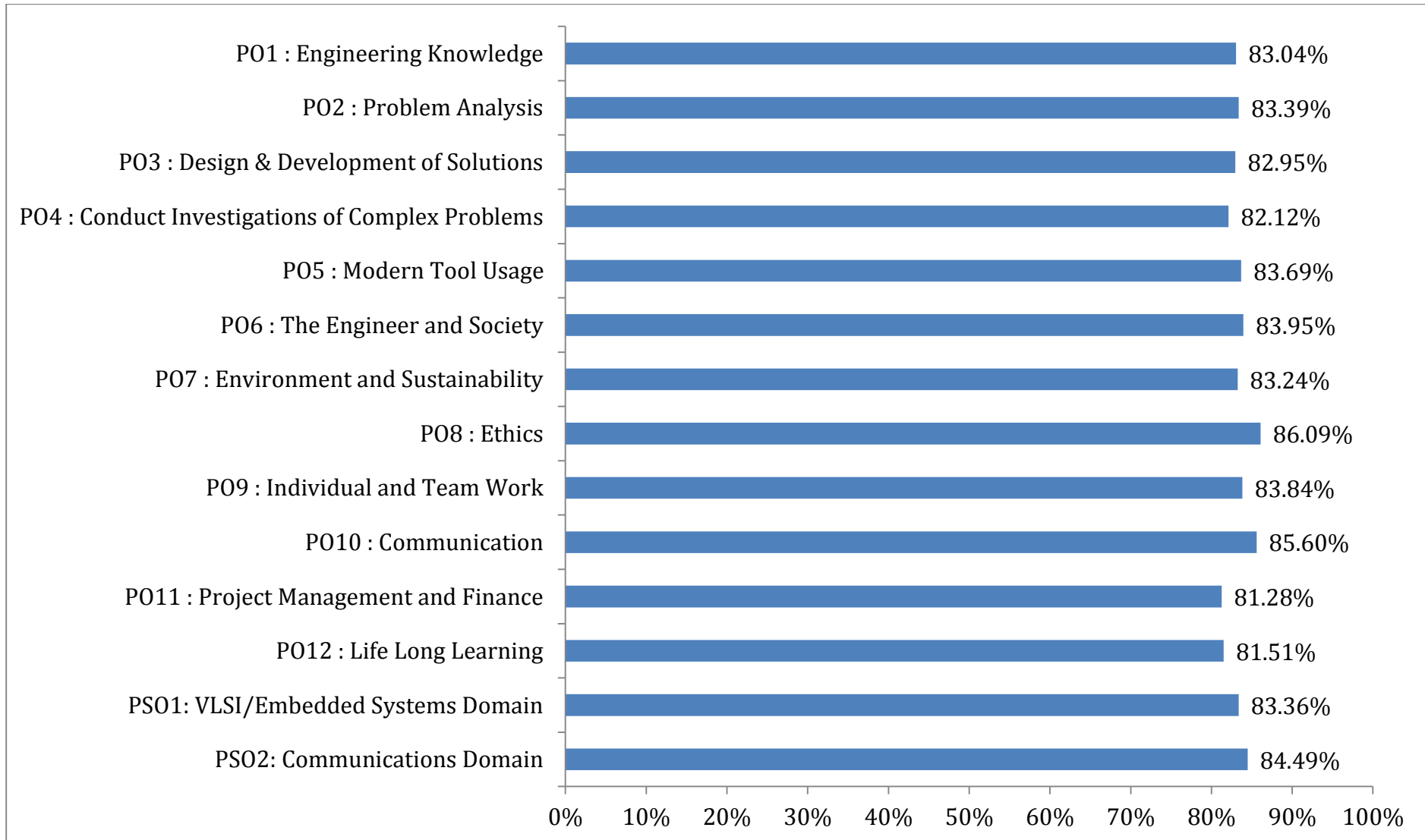
Summery results of PO Attainment through Direct Assessment



PO Attainment through In Direct Assessment

	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
Exit Survey	83.04	83.39	82.95	83.92	84.11	82.57	83.10	83.21	81.08	81.67	80.49	81.79	84.10	84.34
Co – Curricular Activities	-	-	-	80.32	83.26	84.62	79.06	-	86.24	88.62	-	79.06	82.61	84.63
Extra- Curricular Activities	-	-	-	-	-	84.65	87.56	88.96	84.20	86.51	82.06	83.68	-	-
Average	83.04	83.39	82.95	82.12	83.69	83.95	83.24	86.09	83.84	85.60	81.28	81.51	83.36	84.49

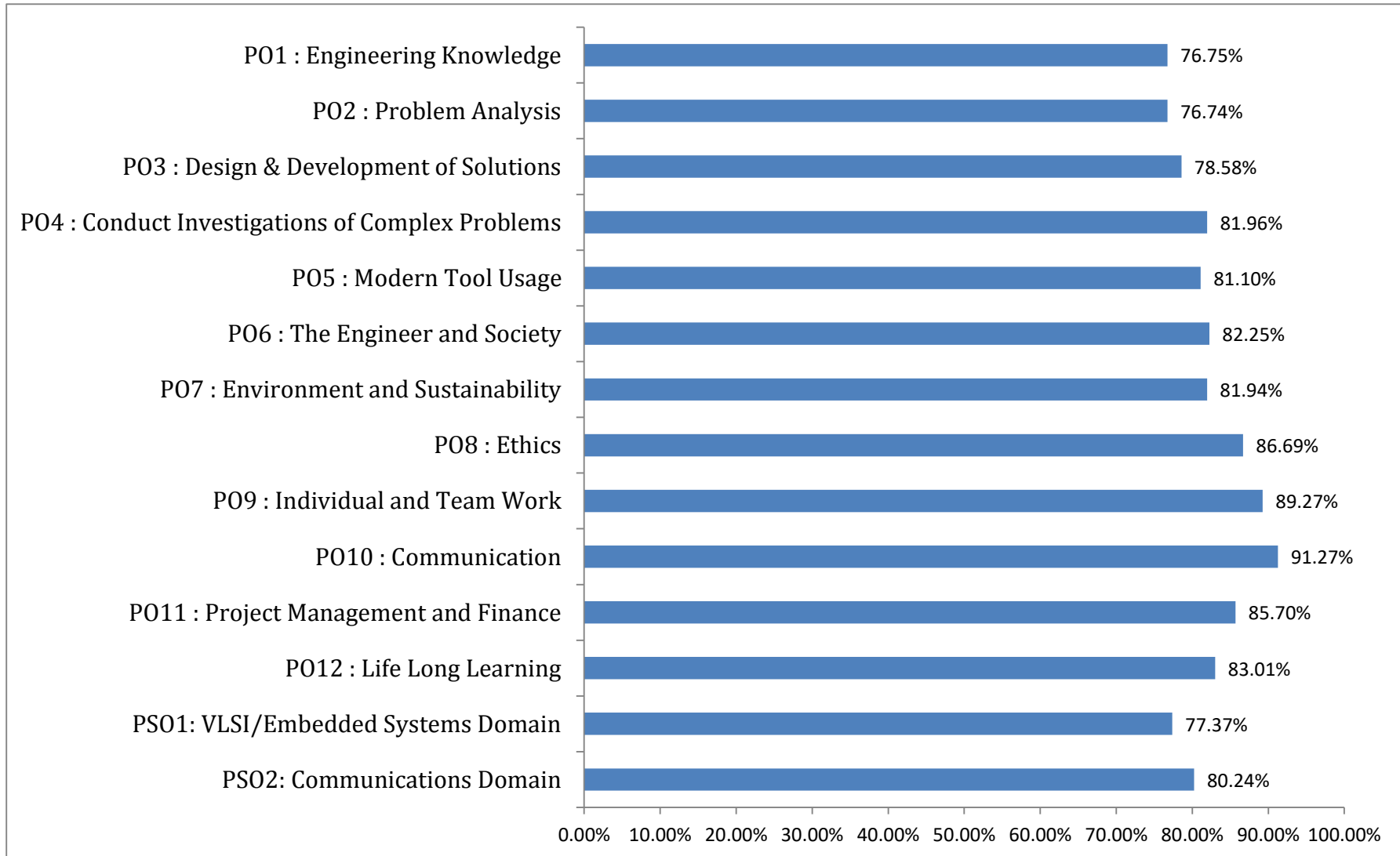
Summery results of PO Attainment through In Direct Assessment

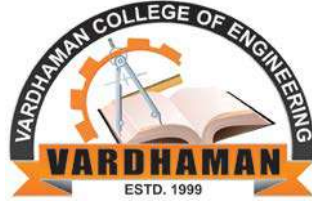


Overall PO Attainment

Program Outcomes	Attainment through Direct Assessment (100%)	Attainment through Direct Assessment (80%)	Attainment through In Direct Assessment (100%)	Attainment through In Direct Assessment (20%)	Overall Attainment (100%)	Target	Attainment Achieved (YES/NO)
PO1	75.17	60.14	83.04	16.61	76.75	75.00	YES
PO2	75.08	60.06	83.39	16.68	76.74	75.00	YES
PO3	77.49	61.99	82.95	16.59	78.58	75.00	YES
PO4	81.92	65.54	82.12	16.42	81.96	75.00	YES
PO5	80.45	64.36	83.69	16.74	81.10	75.00	YES
PO6	81.83	65.46	83.95	16.79	82.25	75.00	YES
PO7	81.61	65.29	83.24	16.65	81.94	75.00	YES
PO8	86.84	69.47	86.09	17.22	86.69	100.00	NO
PO9	90.62	72.50	83.84	16.77	89.27	75.00	YES
PO10	92.69	74.15	85.60	17.12	91.27	75.00	YES
PO11	86.80	69.44	81.28	16.26	85.70	75.00	YES
PO12	83.39	66.71	81.51	16.30	83.01	75.00	YES
PSO1	75.88	60.70	83.36	16.67	77.37	75.00	YES
PSO2	79.18	63.34	84.49	16.90	80.24	75.00	YES

Overall PO Attainment





Attainment of Course Outcomes, Program Outcomes and Program Specific Outcomes

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD
An autonomous institute, affiliated to JNTUH

CO Attainments of Second Year courses through CIE and Semester End Examinations

Course Name	CO #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
Managerial Economics and Financial Analysis (A2012)	A2012.1	49.38		80.58	54.85	80.58	12.35		12.35	12.09	8.23	16.12	61.37	YES
	A2012.2	70.71		80.58	54.85	80.58	17.68		17.68	12.09	8.23	16.12	72.04	YES
	A2012.3		38.98	80.58	54.85	80.58		9.75	9.75	12.09	8.23	16.12	56.17	NO
	A2012.4		37.83	80.58	54.85	80.58		9.46	9.46	12.09	8.23	16.12	55.59	NO
	A2012.5		74.56	80.58	54.85	80.58		18.64	18.64	12.09	8.23	16.12	73.96	YES
Discrete Mathematical Structures (A2505)	A2505.1	74.41		81.07	58.16	46.84	18.60		18.60	12.16	8.72	9.37	67.71	YES
	A2505.2	59.90	78.48	81.07	58.16	46.84	14.98	19.62	34.59	12.16	8.72	9.37	65.35	YES
	A2505.3		59.90	81.07	58.16	46.84		14.98	14.98	12.16	8.72	9.37	60.45	YES
	A2505.4		86.55	81.07	58.16	46.84		21.64	21.64	12.16	8.72	9.37	73.78	YES
	A2505.5		81.18	81.07	58.16	46.84		20.30	20.30	12.16	8.72	9.37	71.09	YES
Digital Logic Design (A2406)	A2406.1	49.41	92.99	0.00	55.92	56.65	12.35	23.25	35.60	0.00		11.33	47.43	NO
	A2406.2	68.68	0.00	0.00	55.92	56.65	17.17	0.00	17.17	0.00		11.33	29.00	NO
	A2406.3	0.00	74.40	0.00	55.92	56.65	0.00	18.60	18.60	0.00		11.33	30.43	NO
	A2406.4	0.00	81.21	0.00	55.92	56.65	0.00	20.30	20.30	0.00		11.33	32.13	NO
	A2406.5	0.00	80.49	0.00	55.92	56.65	0.00	20.12	20.12	0.00		11.33	31.95	NO
Operating Systems (A2506)	A2506.1	71.50	0.00	62.08	50.42	52.70	17.88	0.00	17.88	9.31	7.56	10.54	45.79	NO
	A2506.2	61.85	0.00	62.08	50.42	52.70	15.46	0.00	15.46	9.31	7.56	10.54	43.38	NO
	A2506.3	57.14	86.95	62.08	50.42	52.70	14.29	21.74	36.02	9.31	7.56	10.54	63.94	YES
	A2506.4	0.00	75.07	62.08	50.42	52.70	0.00	18.77	18.77	9.31	7.56	10.54	46.68	NO
	A2506.5	0.00	73.94	62.08	50.42	52.70	0.00	18.49	18.49	9.31	7.56	10.54	46.40	NO
	A2506.6	0.00	71.57	62.08	50.42	52.70	0.00	17.89	17.89	9.31	7.56	10.54	45.81	NO

Course Name	C0 #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
Design and Analysis of Algorithms (A2507)	A2507.1	74.38		86.38	51.06	51.05	18.59		18.59	12.96	7.66	10.21	68.27	YES
	A2507.2	79.01		86.38	51.06	51.05	19.75		19.75	12.96	7.66	10.21	70.58	YES
	A2507.3	87.13		86.38	51.06	51.05	21.78		21.78	12.96	7.66	10.21	74.64	YES
	A2507.4		67.55	86.38	51.06	51.05		16.89	16.89	12.96	7.66	10.21	64.85	YES
	A2507.5		16.58	86.38	51.06	51.05		4.15	4.15	12.96	7.66	10.21	39.37	NO
	A2507.6		54.68	86.38	51.06	51.05		13.67	13.67	12.96	7.66	10.21	58.42	NO
Object Oriented Programming through JAVA (A2508)	A2508.1	65.00	0.00	86.36	71.97	45.87	16.25	0.00	16.25	12.95	10.79	9.17	49.67	NO
	A2508.2		79.04	86.36	71.97	45.87		19.76	19.76	12.95	10.79	9.17	72.70	YES
	A2508.3		72.80	86.36	71.97	45.87		18.20	18.20	12.95	10.79	9.17	69.57	YES
	A2508.4		85.70	86.36	71.97	45.87		21.42	21.42	12.95	10.79	9.17	76.02	YES
	A2508.5		93.00	86.36	71.97	45.87		23.25	23.25	12.95	10.79	9.17	79.67	YES
JAVA Programming Lab (A2509)	A2509.1	78.56				8.25							86.81	YES
	A2509.2	78.56				8.25							86.81	YES
	A2509.3	78.56				8.25							86.81	YES
	A2509.4	78.56				8.25							86.81	YES
	A2509.5	78.56				8.25							86.81	YES
Computer Aided Engineering Drawing Lab (A2306)	A2306.1	80.00				20.00							100.00	YES
	A2306.2	80.00				20.00							100.00	YES
	A2306.3	80.00				20.00							100.00	YES
	A2306.4	80.00				20.00							100.00	YES
	A2306.5	80.00				20.00							100.00	YES
Environmental	A2011.1	74.38	95.59	90.25	78.39	52.32	18.60	23.90	42.49	13.54	11.76	10.46	78.75	YES

Course Name	CO #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
Science (A2011)	A2011.2	68.30		90.25	78.39	52.32	17.08		17.08	13.54	11.76	10.46	70.16	YES
	A2011.3	85.57	87.85	90.25	78.39	52.32	21.39	21.96	43.36	13.54	11.76	10.46	79.62	YES
	A2011.4	88.93		90.25	78.39	52.32	22.23		22.23	13.54	11.76	10.46	80.48	YES
	A2011.5	77.67	89.46	90.25	78.39	52.32	19.42	22.37	41.78	13.54	11.76	10.46	78.04	YES
Computer Architecture and Organization (A2510)	A2510.1	82.03		73.62	62.45	42.31	20.51		20.51	11.04	9.37	8.46	70.14	YES
	A2510.2	82.07		73.62	62.45	42.31	20.52	0.00	20.52	11.04	9.37	8.46	70.16	YES
	A2510.3	87.79	75.92	73.62	62.45	42.31	21.95	18.98	40.93	11.04	9.37	8.46	70.30	YES
	A2510.4		70.55	73.62	62.45	42.31		17.64	17.64	11.04	9.37	8.46	64.40	YES
	A2510.5		77.25	73.62	62.45	42.31	0.00	19.31	19.31	11.04	9.37	8.46	48.68	NO
Formal Languages and Automata Theory (A2511)	A2511.1	74.90		79.66	64.83	86.13	18.72		18.72	11.95	9.72	17.23	76.60	YES
	A2511.2	69.80	94.52	79.66	64.83	86.13	17.45	23.63	41.08	11.95	9.72	17.23	80.48	YES
	A2511.3	70.01	80.00	79.66	64.83	86.13	17.50	20.00	37.50	11.95	9.72	17.23	76.90	YES
	A2511.4	87.72	78.66	79.66	64.83	86.13	21.93	19.67	41.60	11.95	9.72	17.23	81.00	YES
	A2511.5		74.11	79.66	64.83	86.13		18.53	18.53	11.95	9.72	17.23	76.20	YES
Software Engineering (A2512)	A2512.1	71.05		68.90	51.26	92.02	17.76		17.76	10.34	7.69	18.40	72.20	YES
	A2512.2	29.57	74.91	68.90	51.26	92.02	7.39	18.73	26.12	10.34	7.69	18.40	63.04	YES
	A2512.3	76.10		68.90	51.26	92.02	19.03		19.03	10.34	7.69	18.40	74.73	YES
	A2512.4		79.48	68.90	51.26	92.02		19.87	19.87	10.34	7.69	18.40	76.41	YES
	A2512.5		80.24	68.90	51.26	92.02		20.06	20.06	10.34	7.69	18.40	76.79	YES
Unix Programming (A2513)	A2513.1	88.31		90.30	83.76	88.66	22.08		22.08	13.54	12.56	17.73	88.24	YES
	A2513.2	76.73		90.30	83.76	88.66	19.18		19.18	13.54	12.56	17.73	82.45	YES
	A2513.3		47.76	90.30	83.76	88.66		11.94	11.94	13.54	12.56	17.73	67.97	YES

Course Name	CO #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
	A2513.4		83.94	90.30	83.76	88.66		20.99	20.99	13.54	12.56	17.73	86.06	YES
	A2513.5		84.18	90.30	83.76	88.66		21.05	21.05	13.54	12.56	17.73	86.18	YES
Database Management Systems (A2514)	A2514.1	77.44		73.42	87.61	46.78	19.36		19.36	11.01	13.14	9.36	72.48	YES
	A2514.2	61.41		73.42	87.61	46.78	15.35		15.35	11.01	13.14	9.36	64.46	YES
	A2514.3		56.67	73.42	87.61	46.78		14.17	14.17	11.01	13.14	9.36	62.09	YES
	A2514.4		60.23	73.42	87.61	46.78		15.06	15.06	11.01	13.14	9.36	63.87	YES
	A2514.5		75.64	73.42	87.61	46.78		18.91	18.91	11.01	13.14	9.36	71.58	YES
Unix Programming Lab (A2515)	A2515.1	80.00				20.00							100.00	YES
	A2515.2	80.00				20.00							100.00	YES
	A2515.3	80.00				20.00							100.00	YES
	A2515.4	80.00				20.00							100.00	YES
	A2515.5	80.00				20.00							100.00	YES
Database Management Systems Lab (A2516)	A2516.1	80.00				20.00							100.00	YES
	A2516.2	80.00				20.00							100.00	YES
	A2516.3	80.00				20.00							100.00	YES
	A2516.4	80.00				20.00							100.00	YES
	A2516.5	80.00				20.00							100.00	YES

Summary of CO attainments:

Table B.3.2.1c: Summary of CO attainments

Total No. of COs in the Program	82
No. of COs are attained	66
No. of COs are not attained	16
% of COs are attained	80.48
% of COs are not attained	19.51

Table A3.2.2b: CO Attainments of *Third Year* courses through CIE and Semester End Examinations

Course Name	CO #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
Microprocessors and Interfacing (A2419)	A2419.1	77.08		55.92	59.92	49.38	19.27	0.00	19.27	8.39		9.88	38.03	NO
	A2419.2	78.68	0.00	55.92	59.92	56.65	19.67	0.00	19.67	8.39		11.33	39.89	NO
	A2419.3	0.00	77.25	55.92	59.92	56.65	0.00	19.31	19.31	8.39		11.33	39.53	NO
	A2419.4	0.00	77.70	55.92	59.92	56.65	0.00	19.42	19.42	8.39		11.33	39.64	NO
	A2419.5	0.00	75.39	55.92	59.92	56.65	0.00	18.85	18.85	8.39		11.33	39.07	NO
Computer Networks (A2602)	A2602.1	57.09		67.95	73.93	40.17	14.27		14.27	10.19	11.09	8.03	58.11	NO
	A2602.2	65.35	63.38	67.95	73.93	40.17	16.34	15.85	32.18	10.19	11.09	8.03	62.00	YES
	A2602.3	47.80	27.33	67.95	73.93	40.17	11.95	6.83	18.78	10.19	11.09	8.03	48.60	NO
	A2602.4		31.51	67.95	73.93	40.17		7.88	7.88	10.19	11.09	8.03	45.32	NO
	A2602.5		34.09	67.95	73.93	40.17		8.52	8.52	10.19	11.09	8.03	46.61	NO
Web Technologies (A2603)	A2603.1	66.01		79.31	78.02	41.74	16.50		16.50	11.90	11.70	8.35	65.20	YES
	A2603.2	61.88		79.31	78.02	41.74	15.47		15.47	11.90	11.70	8.35	63.14	YES
	A2603.3	62.49	58.38	79.31	78.02	41.74	15.62	14.60	30.22	11.90	11.70	8.35	62.66	YES
	A2603.4		48.80	79.31	78.02	41.74		12.20	12.20	11.90	11.70	8.35	56.59	NO
	A2603.5		69.95	79.31	78.02	41.74		17.49	17.49	11.90	11.70	8.35	67.17	YES

Course Name	CO #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
			54.35	79.31	78.02	41.74		13.59	13.59	11.90	11.70	8.35	59.37	NO
Mobile Application Development (A2604)	A2604.1	81.33	80.00	87.12	90.13	65.67	20.33	20.00	40.33	13.07	13.52	13.13	80.55	YES
	A2604.2	59.12	85.23	87.12	90.13	65.67	14.78	21.31	36.09	13.07	13.52	13.13	76.31	YES
	A2604.3	83.95	61.52	87.12	90.13	65.67	20.99	15.38	36.37	13.07	13.52	13.13	76.59	YES
	A2604.4		75.61	87.12	90.13	65.67		18.90	18.90	13.07	13.52	13.13	77.78	YES
	A2604.5		69.59	87.12	90.13	65.67		17.40	17.40	13.07	13.52	13.13	74.77	YES
Compiler Design (A2517)	A2517.1	77.66		71.55	51.50	41.38	19.42		19.42	10.73	7.73	8.28	65.81	YES
	A2517.2	77.36		71.55	51.50	41.38	19.34		19.34	10.73	7.73	8.28	65.66	YES
	A2517.3		58.75	71.55	51.50	41.38		14.69	14.69	10.73	7.73	8.28	56.36	NO
	A2517.4		51.46	71.55	51.50	41.38		12.86	12.86	10.73	7.73	8.28	52.71	NO
	A2517.5		58.62	71.55	51.50	41.38		14.65	14.65	10.73	7.73	8.28	56.29	NO
Principles of programming Languages (A2518)	A2518.1	58.83	52.23	89.32	71.37	52.81	14.71	13.06	27.76	13.40	10.71	10.56	62.93	YES
	A2518.2	58.80	35.29	89.32	71.37	52.81	14.70	8.82	23.52	13.40	10.71	10.56	58.69	NO
	A2518.3	68.57	46.48	89.32	71.37	52.81	17.14	11.62	28.76	13.40	10.71	10.56	63.93	YES
	A2518.4	52.42	47.77	89.32	71.37	52.81	13.10	11.94	25.05	13.40	10.71	10.56	60.21	YES
	A2518.5		42.05	89.32	71.37	52.81		10.51	10.51	13.40	10.71	10.56	55.94	NO
Microprocessors and Interfacing Lab (A2424)	A2424.1	79.65				20.00							99.65	YES
	A2424.2	79.65				20.00							99.65	YES
	A2424.3	79.65				20.00							99.65	YES
	A2424.4	79.65				20.00							99.65	YES
Web Technologies Lab (A2606)	A2606.1	79.64				17.42							97.07	YES
	A2606.2	79.64				17.42							97.07	YES
	A2606.3	79.64				17.42							97.07	YES
	A2606.4	79.64				17.42							97.07	YES
	A2606.5	79.64				17.42							97.07	YES
Embedded	A2425.1	77.00	60.58	93.99	87.98	75.86	19.25	15.15	34.40	14.10	13.20	15.17	77.36	YES
	A2425.2	56.07	72.29	93.99	87.98	75.86	14.02	18.07	32.09	14.10	13.20	15.17	75.06	YES

Course Name	CO #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
Systems (A2425)	A2425.3	71.91	77.20	93.99	87.98	75.86	17.98	19.30	37.28	14.10	13.20	15.17	80.25	YES
	A2425.4	68.42	67.79	93.99	87.98	75.86	17.11	16.95	34.05	14.10	13.20	15.17	77.02	YES
	A2425.5			93.99	87.98	75.86			0.00	14.10	13.20	15.17	92.47	YES
Network Security and Cryptography (A2607)	A2607.1	77.52		99.14	64.81	50.21	19.38		19.38	14.87	9.72	10.04	73.64	YES
	A2607.2	91.18		99.14	64.81	50.21	22.79		22.79	14.87	9.72	10.04	80.47	YES
	A2607.3	86.32		99.14	64.81	50.21	21.58		21.58	14.87	9.72	10.04	78.04	YES
	A2607.4		77.65	99.14	64.81	50.21		19.41	19.41	14.87	9.72	10.04	73.71	YES
	A2607.5		77.65	99.14	64.81	50.21		19.41	19.41	14.87	9.72	10.04	73.71	YES
	A2607.6	0.00	69.54	99.14	64.81	50.21	0.00	17.38	17.38	14.87	9.72	10.04	52.52	NO
Open Source Technologies (A2608)	A2608.1	88.29	86.58	90.56	81.47	66.38	22.07	21.65	43.72	13.58	12.22	13.28	83.30	YES
	A2608.2	88.95	76.57	90.56	81.47	66.38	22.24	19.14	41.38	13.58	12.22	13.28	80.96	YES
	A2608.3	80.87	75.55	90.56	81.47	66.38	20.22	18.89	39.11	13.58	12.22	13.28	78.68	YES
	A2608.4	78.06	69.27	90.56	81.47	66.38	19.51	17.32	36.83	13.58	12.22	13.28	76.41	YES
Artificial Intelligence (A2519)	A2519.1	79.77	0.00	98.71	0.00	56.65	19.94	0.00	19.94	14.81		11.33	46.58	NO
	A2519.2	80.00	0.00	98.71	0.00	56.65	20.00	0.00	20.00	14.81		11.33	46.64	NO
	A2519.3	0.00	90.85	98.71	0.00	56.65	0.00	22.71	22.71	14.81		11.33	49.35	NO
	A2519.4	0.00	76.88	98.71	0.00	56.65	0.00	19.22	19.22	14.81		11.33	45.86	NO
	A2519.5	0.00	80.40	98.71	0.00	56.65	0.00	20.10	20.10	14.81		11.33	46.74	NO
Object Oriented Analysis and Design (A2520)	A2520.1	80.63		93.13	84.12	96.96	20.16		20.16	13.97	12.62	19.39	86.55	YES
	A2520.2	57.03		93.13	84.12	96.96	14.26		14.26	13.97	12.62	19.39	74.74	YES
	A2520.3		82.85	93.13	84.12	96.96		20.71	20.71	13.97	12.62	19.39	87.65	YES
	A2520.4		77.65	93.13	84.12	96.96		19.41	19.41	13.97	12.62	19.39	85.05	YES
	A2520.5		95.70	93.13	84.12	96.96		23.93	23.93	13.97	12.62	19.39	94.08	YES
ENTREPRENEURSHIP (A2017)	A2017.1	85.17		95.71	74.57	40.34	21.29		21.29	14.36	11.19	8.07	76.44	YES
	A2017.2	76.72		95.71	74.57	40.34	19.18		19.18	14.36	11.19	8.07	72.22	YES
	A2017.3		88.13	95.71	74.57	40.34		22.03	22.03	14.36	11.19	8.07	77.93	YES
	A2017.4		83.28	95.71	74.57	40.34		20.82	20.82	14.36	11.19	8.07	75.50	YES

Course Name	CO #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
	A2017.5		83.17	95.71	74.57	40.34		20.79	20.79	14.36	11.19	8.07	75.45	YES
Open Source Technologies Lab (A2609)	A2609.1	80.00				20.00							100.00	YES
	A2609.2	80.00				20.00							100.00	YES
	A2609.3	80.00				20.00							100.00	YES
	A2609.4	80.00				20.00							100.00	YES
	A2609.5	80.00				20.00							100.00	YES
Object Oriented Analysis and Design Lab (A2521)	A2521.1	80.00				20.00							100.00	YES
	A2521.2	80.00				20.00							100.00	YES
	A2521.3	80.00				20.00							100.00	YES
	A2521.4	80.00				20.00							100.00	YES
	A2521.5	80.00				20.00							100.00	YES

Summary of CO attainments:

Table B.3.2.1c: Summary of CO attainments

Total No. of COs in the Program	80
No. of COs are attained	59
No. of COs are not attained	21
% of COs are attained	73.75
% of COs are not attained	26.25

Table A3.2.2b: CO Attainments of *Fourth Year* courses through CIE and Semester End Examinations

Course Name	CO #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
Cloud Computing (A2611)	A2611.1	60.54	93.06	55.95	77.97	68.72	15.13	23.26	38.40	8.39	11.70	13.74	72.73	YES
	A2611.2	50.69	77.56	55.95	77.97	68.72	12.67	19.39	32.06	8.39	11.70	13.74	66.39	YES
	A2611.3	58.33	89.39	55.95	77.97	68.72	14.58	22.35	36.93	8.39	11.70	13.74	71.26	YES
	A2611.4	46.84	79.58	55.95	77.97	68.72	11.71	19.89	31.60	8.39	11.70	13.74	65.94	YES
	A2611.5	60.62	57.25	55.95	77.97	68.72	15.16	14.31	29.47	8.39	11.70	13.74	63.80	YES
Cyber Security (A2612)	A2612.1	69.64	65.52	91.63	47.35	31.72	17.41	16.38	33.79	13.74	7.10	6.34	61.48	YES
	A2612.2	42.45	59.19	91.63	47.35	31.72	10.61	14.80	25.41	13.74	7.10	6.34	53.10	NO
	A2612.3	39.08	50.73	91.63	47.35	31.72	9.77	12.68	22.45	13.74	7.10	6.34	50.14	NO
	A2612.4	40.34	39.32	91.63	47.35	31.72	10.08	9.83	19.91	13.74	7.10	6.34	47.60	NO
	A2612.5	39.00	39.00	91.63	47.35	31.72	9.75	9.75	19.50	13.74	7.10	6.34	47.19	NO
Software Project Management (A2522)	A2522.1	55.40		93.10	52.59	56.90	13.85		13.85	13.97	7.89	11.38	61.18	YES
	A2522.2	61.56		93.10	52.59	56.90	15.39		15.39	13.97	7.89	11.38	64.26	YES
	A2522.3		86.28	93.10	52.59	56.90		21.57	21.57	13.97	7.89	11.38	76.62	YES
	A2522.4		68.01	93.10	52.59	56.90		17.00	17.00	13.97	7.89	11.38	67.49	YES
	A2522.5		58.47	93.10	52.59	56.90		14.62	14.62	13.97	7.89	11.38	62.72	YES
Data Mining and Data Warehousing (A2523)	A2523.1	69.61		62.17	79.13	90.09	17.40		17.40	9.33	11.87	18.02	74.27	YES
	A2523.2	68.75	78.88	62.17	79.13	90.09	17.19	19.72	36.91	9.33	11.87	18.02	76.62	YES
	A2523.3		83.46	62.17	79.13	90.09		20.87	20.87	9.33	11.87	18.02	81.19	YES
	A2523.4	81.48	58.53	62.17	79.13	90.09	20.37	14.63	35.00	9.33	11.87	18.02	74.71	YES
	A2523.5		93.91	62.17	79.13	90.09		23.48	23.48	9.33	11.87	18.02	86.42	YES
Air Pollution & Control	A2153.1	91.42		93.44	50.00	24.59	22.86		22.86	14.02	7.50	4.92	72.39	YES
	A2153.2	88.98		93.44	50.00	24.59	22.24		22.24	14.02	7.50	4.92	71.17	YES

Course Name	C0 #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
Methodologies (A2153)	A2153.3	91.54	82.43	93.44	50.00	24.59	22.89	20.61	43.49	14.02	7.50	4.92	70.43	YES
	A2153.4		91.92	93.44	50.00	24.59		22.98	22.98	14.02	7.50	4.92	72.64	YES
	A2153.5		95.15	93.44	50.00	24.59		23.79	23.79	14.02	7.50	4.92	74.26	YES
Operations Research (A2154)	A2154.1	96.80		88.68	81.13	77.36	24.20		24.20	13.30	12.17	15.47	89.59	YES
	A2154.2	94.12		88.68	81.13	77.36	23.53		23.53	13.30	12.17	15.47	88.25	YES
	A2154.3	89.83		88.68	81.13	77.36	22.46		22.46	13.30	12.17	15.47	86.11	YES
	A2154.4		96.45	88.68	81.13	77.36		24.11	24.11	13.30	12.17	15.47	89.42	YES
	A2154.5		90.00	88.68	81.13	77.36		22.50	22.50	13.30	12.17	15.47	86.19	YES
Computer Graphics (A2614)	A2614.1	82.03		32.81	69.79	66.32	20.51		20.51	4.92	10.47	13.26	69.92	YES
	A2614.2	82.07		32.81	69.79	66.32	20.52	0.00	20.52	4.92	10.47	13.26	69.94	YES
	A2614.3	87.79	54.59	32.81	69.79	66.32	21.95	13.65	35.59	4.92	10.47	13.26	64.75	YES
	A2614.4		45.45	32.81	69.79	66.32		11.36	11.36	4.92	10.47	13.26	51.63	NO
	A2614.5		66.84	32.81	69.79	66.32	0.00	16.71	16.71	4.92	10.47	13.26	45.86	NO
Distributed Operating Systems (A2527)	A2527.1	80.68	93.33	76.92	59.46	56.41	20.17	23.33	43.50	11.54	8.92	11.28	75.74	YES
	A2527.2	53.47		76.92	59.46	56.41	13.37		13.37	11.54	8.92	11.28	58.73	NO
	A2527.3	54.55	81.04	76.92	59.46	56.41	13.64	20.26	33.90	11.54	8.92	11.28	66.13	YES
	A2527.4		88.35	76.92	59.46	56.41		22.09	22.09	11.54	8.92	11.28	76.16	YES
	A2527.5		75.00	76.92	59.46	56.41		18.75	18.75	11.54	8.92	11.28	69.49	YES
Cloud Computing Lab (A2618)	A2618.1	80.00				20.00							100.00	YES
	A2618.2	80.00				20.00							100.00	YES
	A2618.3	80.00				20.00							100.00	YES
	A2618.4	80.00				20.00							100.00	YES
Data Mining	A2528.1	80.00				20.00							100.00	YES

Course Name	C0 #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
and Data Warehousing Lab (A2528)	A2528.2	80.00				20.00							100.00	YES
	A2528.3	80.00				20.00							100.00	YES
	A2528.4	80.00				20.00							100.00	YES
	A2528.5	80.00				20.00							100.00	YES
Mini Project (A2529)	A2529.1					100.00							100.00	YES
	A2529.2					100.00							100.00	YES
	A2529.3					100.00							100.00	YES
	A2529.4					100.00							100.00	YES
	A2529.5					100.00							100.00	YES
Professional Ethics and Intellectual Property Rights (A2015)	A2015.1	42.62	83.35	81.47	51.30	99.14	10.66	20.84	31.49	12.22	7.70	19.83	71.73	YES
	A2015.2	34.38	81.91	81.47	51.30	99.14	8.59	20.48	29.07	12.22	7.70	19.83	69.31	YES
	A2015.3	0.00		81.47	51.30	99.14	0.00		0.00	12.22	7.70	19.83	89.99	YES
	A2015.4			81.47	51.30	99.14			0.00	12.22	7.70	19.83	89.74	YES
	A2015.5		78.73	81.47	51.30	99.14		19.68	19.68	12.22	7.70	19.83	79.36	YES
Software Testing and Quality Assurance (A2613)	A2613.1	69.83		21.98	61.14	86.21	17.46		17.46	3.30	9.17	17.24	64.87	YES
	A2613.2	70.45		21.98	61.14	86.21	17.61		17.61	3.30	9.17	17.24	65.18	YES
	A2613.3	54.08	48.06	21.98	61.14	86.21	13.52	12.02	25.54	3.30	9.17	17.24	55.74	NO
	A2613.4	36.97	64.24	21.98	61.14	86.21	9.24	16.06	25.30	3.30	9.17	17.24	55.51	NO
	A2613.5		64.74	21.98	61.14	86.21		16.19	16.19	3.30	9.17	17.24	62.33	YES
Information Retrieval Systems (A2626)	A2626.1	90.16	84.34	70.93	37.17	84.58	22.54	21.09	43.63	10.64	5.58	16.92	77.26	YES
	A2626.2	81.57		70.93	37.17	84.58	20.39		20.39	10.64	5.58	16.92	74.16	YES
	A2626.3	0.00	62.02	70.93	37.17	84.58	0.00	15.50	15.50	10.64	5.58	16.92	49.13	NO
	A2626.4		73.92	70.93	37.17	84.58		18.48	18.48	10.64	5.58	16.92	70.34	YES

Course Name	CO #	MT1	MT2	Q1	Q2	SEE	80 % WT ON CIE					20% WT ON SEE	TOTAL CO through (100%)	Attainment achieved (Yes/No)
							25% WT ON MT1	25% WT ON MT2	TOTAL of MT1 & MT2	15% WT ON Q1	15% WT ON C			
	A2626.5		91.26	70.93	37.17	84.58		22.81	22.81	10.64	5.58	16.92	79.01	YES
Industry Oriented Design lab (A2537)	A2537.1	100.00	100.00			100.00	40.00	40.00	80.00	0.00	0.00	20.00	70.80	YES
	A2537.2	100.00	100.00			100.00	40.00	40.00	80.00	0.00	0.00	20.00	70.80	YES
	A2537.3	100.00	100.00			100.00	40.00	40.00	80.00	0.00	0.00	20.00	70.80	YES
	A2537.4	100.00	100.00			100.00	40.00	40.00	80.00	0.00	0.00	20.00	70.80	YES
	A2537.5	100.00	100.00			100.00	40.00	40.00	80.00	0.00	0.00	20.00	70.80	YES
Technical Seminar (A2538)	A2538.1	100.00					100.00		100.00	0.00	0.00	0.00	100.00	YES
	A2538.2	100.00					100.00		100.00	0.00	0.00	0.00	100.00	YES
	A2538.3	100.00					100.00		100.00	0.00	0.00	0.00	100.00	YES
Comprehensive Viva (A2539)	A2539.1					99.57							87.50	YES
	A2539.2					99.57							87.50	YES
	A2539.3					99.57							87.50	YES
	A2539.4					99.57							87.50	YES
	A2539.5					99.57							87.50	YES
Project Work (A2540)	A2540.1					99.57							87.50	YES
	A2540.2					99.57							87.50	YES
	A2540.3					99.57							87.50	YES
	A2540.4					99.57							87.50	YES
	A2540.5					99.57							87.50	YES

Summary of CO attainments:

Table B.3.2.1c: Summary of CO attainments

Total No. of COs in the Program	87
No. of COs are attained	77
No. of COs are not attained	10
% of COs are attained	88.50
% of COs are not attained	11.49

**Overall Course Outcomes Attainment through indirect Assessment
(Course end surveys)**

S. No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
TARGET IS 60 % OF STUDENTS GETTING EQUAL AND GREATER THAN 60% OF MARKS IN ALL COURSES										
ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH										
I SEMESTER - THEORY COURSES										
1	Technical English (A2005)	A2005.1	80.05	229	88.73	72.05	8.87	80.92	60.00	YES
2		A2005.2	81.86	229	85.33	73.68	8.53	82.21	60.00	YES
3		A2005.3	65.73	229	87.69	59.16	8.77	67.93	60.00	YES
4		A2005.4	83.79	229	86.03	75.41	8.60	84.02	60.00	YES
5		A2005.5	83.92	229	87.69	75.53	8.77	84.30	60.00	YES
6	Mathematics - I (A2001)	A2001.1	84.26	229	88.30	75.84	8.83	84.67	60.00	YES
7		A2001.2	81.28	229	87.07	73.15	8.71	81.86	60.00	YES
8		A2001.3	86.62	229	89.69	77.96	8.97	86.93	60.00	YES
9		A2001.4	86.23	229	88.65	77.61	8.86	86.47	60.00	YES
10		A2001.5	83.24	229	89.78	74.92	8.98	83.90	60.00	YES
11	Probability Theory and Numerical Methods (A2004)	A2004.1	78.96	229	89.61	71.06	8.96	80.02	60.00	YES
12		A2004.2	79.46	229	88.56	71.52	8.86	80.37	60.00	YES
13		A2004.3	78.64	229	88.21	70.78	8.82	79.60	60.00	YES
14		A2004.4	82.15	229	89.00	73.94	8.90	82.83	60.00	YES
15		A2004.5	77.66	229	88.30	69.89	8.83	78.72	60.00	YES
16	Basic Electrical Engineering (A2201)	A2201.1	78.12	229	89.26	70.31	8.93	79.23	60.00	YES
17		A2201.2	77.02	229	86.72	69.32	8.67	77.99	60.00	YES
18		A2201.3	78.64	229	87.60	70.78	8.76	79.54	60.00	YES
19		A2201.4	75.97	229	89.69	68.37	8.97	77.34	60.00	YES
20	Computer Programming (A2501)	A2501.1	80.55	229	89.52	72.49	8.95	81.44	60.00	YES
21		A2501.2	76.78	229	89.08	69.11	8.91	78.01	60.00	YES
22		A2501.3	84.61	229	88.38	76.15	8.84	84.99	60.00	YES
23		A2501.4	72.09	229	88.82	64.88	8.88	73.76	60.00	YES
24		A2501.5	83.95	229	88.47	75.55	8.85	84.40	60.00	YES
25		A2501.6	77.91	229	89.00	70.12	8.90	79.02	60.00	YES

S. No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
II SEMESTER - LABORATORY COURSES										
26	Computer Programming Lab(A2502)	A2502.1	66.91	229	90.92	60.22	9.09	69.31	60.00	YES
27		A2502.2	66.91	229	88.21	60.22	8.82	69.04	60.00	YES
28		A2502.3	66.91	229	87.51	60.22	8.75	68.97	60.00	YES
29		A2502.4	66.91	229	86.81	60.22	8.68	68.90	60.00	YES
30		A2502.5	66.91	229	85.68	60.22	8.57	68.79	60.00	YES
31		A2502.6	66.91	229	85.85	60.22	8.59	68.81	60.00	YES
32	IT Workshop (A2601)	A2601.1	77.85	229	87.60	70.06	8.76	78.82	60.00	YES
33		A2601.2	77.85	229	90.39	70.06	9.04	79.10	60.00	YES
34		A2601.3	77.85	229	89.69	70.06	8.97	79.03	61.00	YES
35		A2601.4	77.85	229	88.56	70.06	8.86	78.92	62.00	YES
36		A2601.5	77.85	229	89.52	70.06	8.95	79.02	63.00	YES
37	English Language Communication Skills Lab(A2009)	A2009.1	82.98	229	89.34	74.68	8.93	83.62	60.00	YES
38		A2009.2	82.98	229	87.69	74.68	8.77	83.45	61.00	YES
39		A2009.3	82.98	229	87.86	74.68	8.79	83.47	62.00	YES
40		A2009.4	82.98	229	89.00	74.68	8.90	83.58	63.00	YES
41		A2009.5	82.98	229	87.86	74.68	8.79	83.47	60.00	YES
II SEMESTER - THEORY COURSES										
42	Mathematics - II (A2006)	A2006.1	73.13	234	84.10	65.82	8.41	74.23	60.00	YES
43		A2006.2	76.53	234	83.93	68.88	8.39	77.27	60.00	YES
44		A2006.3	69.80	234	83.85	62.82	8.38	71.20	60.00	YES
45		A2006.4	60.23	234	84.70	54.20	8.47	62.67	60.00	YES
46		A2006.5	60.92	234	86.32	54.83	8.63	63.46	60.00	YES
47	Engineering Physics (A2002)	A2002.1	77.49	234	83.33	69.74	8.33	78.08	60.00	YES
48		A2002.2	78.37	234	84.79	70.53	8.48	79.01	60.00	YES
49		A2002.3	80.52	234	84.27	72.47	8.43	80.89	60.00	YES
50		A2002.4	76.54	234	83.68	68.89	8.37	77.25	60.00	YES
51		A2002.5	80.22	234	86.15	72.19	8.62	80.81	60.00	YES
52	Engineering Chemistry (A2003)	A2003.1	71.56	234	86.41	64.40	8.64	73.04	60.00	YES
53		A2003.2	74.93	233	84.72	67.44	8.47	75.91	60.00	YES
54		A2003.3	81.97	234	83.59	73.77	8.36	82.13	60.00	YES
55		A2003.4	77.52	234	85.13	69.77	8.51	78.28	60.00	YES
56		A2003.5	70.09	234	85.47	63.08	8.55	71.63	60.00	YES
57	Data Structures through C (A2503)	A2503.1	93.06	234	83.50	83.76	8.35	92.11	60.00	YES
58		A2503.2	90.05	234	83.85	81.04	8.38	89.43	60.00	YES
59		A2503.3	92.80	234	83.85	83.52	8.38	91.91	60.00	YES
60		A2503.4	92.15	234	82.14	82.94	8.21	91.15	60.00	YES
61		A2503.5	89.92	234	82.48	80.93	8.25	89.18	60.00	YES
62	Electronic Devices and Circuits (A2402)	A2402.1	65.57	234	82.14	59.01	8.21	67.23	60.00	YES
63		A2402.2	71.54	234	80.94	64.39	8.09	72.48	60.00	YES
64		A2402.3	68.01	234	81.45	61.21	8.15	69.35	60.00	YES
65		A2402.4	71.20	234	80.17	64.08	8.02	72.09	60.00	YES
66		A2402.5	66.61	234	82.56	59.95	8.26	68.21	60.00	YES
II SEMESTER - LABORATORY COURSES										

S. No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
67	Engineering Physics and Engineering Chemistry Lab (A2008)	A2008.1	97.14	234	84.19	87.43	8.42	95.84	60.00	YES
68		A2008.2	97.14	234	82.39	87.43	8.24	95.67	60.00	YES
69		A2008.3	97.14	234	85.13	87.43	8.51	95.94	60.00	YES
70		A2008.4	97.14	234	84.02	87.43	8.40	95.83	60.00	YES
71		A2008.5	97.14	234	84.96	87.43	8.50	95.92	60.00	YES
72		A2008.6	97.14	234	84.62	87.43	8.46	95.89	60.00	YES
73	Data Structures through C Lab (A2504)	A2504.1	80.24	234	81.03	72.22	8.10	80.32	60.00	YES
74		A2504.2	80.24	234	82.82	72.22	8.28	80.50	60.00	YES
75		A2504.3	80.24	234	83.59	72.22	8.36	80.58	60.00	YES
76		A2504.4	80.24	234	84.44	72.22	8.44	80.66	60.00	YES
77		A2504.5	80.24	234	81.37	72.22	8.14	80.35	60.00	YES
78	Electronic Devices and Circuits Lab (A2405)	A2405.1	79.70	234	81.37	71.73	8.14	79.87	60.00	YES
79		A2405.2	79.70	234	84.10	71.73	8.41	80.14	60.00	YES
80		A2405.3	79.70	234	84.87	71.73	8.49	80.22	60.00	YES
81		A2405.4	79.70	234	84.02	71.73	8.40	80.13	60.00	YES
82		A2405.5	79.70	234	83.42	71.73	8.34	80.07	60.00	YES

S. No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
TARGET IS 60 % OF STUDENTS GETTING EQUAL AND GREATER THAN 60% OF MARKS IN ALL COURSES										
ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH										
III SEMESTER - THEORY COURSES										
1	Managerial Economics and Financial Analysis (A2012)	A2012.1	61.37	208	83.65	55.23	8.37	63.60	60.00	YES
2		A2012.2	72.03	208	84.71	64.83	8.47	73.30	60.00	YES
3		A2012.3	56.17	208	85.58	50.55	8.56	59.11	60.00	NO
4		A2012.4	55.59	208	85.58	50.03	8.56	58.59	60.00	NO
5		A2012.5	73.96	208	84.71	66.56	8.47	75.04	60.00	YES
6		A2012.6	58.36	208	86.15	66.56	8.62	75.18	60.00	YES
7	Discrete Mathematical Structures (A2505)	A2505.1	67.71	208	83.85	60.94	8.38	69.32	60.00	YES
8		A2505.2	65.35	208	81.35	58.81	8.13	66.95	60.00	YES
9		A2505.3	60.45	228	82.89	54.41	8.29	62.70	60.00	YES
10		A2505.4	73.78	208	88.85	66.40	8.88	75.28	60.00	YES
11		A2505.5	71.09	208	88.37	63.98	8.84	72.82	60.00	YES
12	Digital Logic Design (A2406)	A2406.1	47.43	208	88.37	42.69	8.84	51.52	60.00	NO
13		A2406.2	29.00	208	83.85	26.10	8.38	34.48	60.00	NO
14		A2406.3	30.43	208	83.37	27.39	8.34	35.72	60.00	NO
15		A2406.4	32.13	208	83.75	28.92	8.38	37.29	60.00	NO
16		A2406.5	31.95	208	84.13	28.76	8.41	37.17	60.00	NO
17	Operating Systems (A2506)	A2506.1	45.79	208	83.85	41.21	8.38	49.60	60.00	NO
18		A2506.2	43.37	208	84.81	39.03	8.48	47.51	60.00	NO
19		A2506.3	63.93	208	87.50	57.54	8.75	66.29	60.00	YES
20		A2506.4	46.68	208	88.37	42.01	8.84	50.85	60.00	NO
21		A2506.5	46.4	208	81.15	41.76	8.12	49.88	60.00	NO

S. No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
22		A2506.6	45.8	208	86.92	41.22	8.69	49.91	60.00	NO
23	Design and Analysis of Algorithms (A2507)	A2507.1	68.27	208	87.21	61.44	8.72	70.16	60.00	YES
24		A2507.2	70.58	208	87.02	63.52	8.70	72.23	60.00	YES
25		A2507.3	74.64	208	85.77	67.18	8.58	75.76	60.00	YES
26		A2507.4	64.85	208	84.23	58.37	8.42	66.79	60.00	YES
27		A2507.5	39.37	208	88.17	35.43	8.82	44.25	60.00	NO
28		A2507.6	58.42	208	87.88	52.58	8.79	61.36	60.00	YES
29	Object Oriented Programming through JAVA(A2508)	A2508.1	49.67	208	83.75	44.71	8.38	53.08	60.00	NO
30		A2508.2	72.70	208	83.94	65.43	8.39	73.82	60.00	YES
31		A2508.3	69.57	208	85.38	62.61	8.54	71.15	60.00	YES
32		A2508.4	76.02	208	85.77	68.42	8.58	77.00	60.00	YES
33		A2508.5	79.67	208	85.38	71.71	8.54	80.24	60.00	YES
III SEMESTER - LABORATORY COURSES										
34	JAVA Programming Lab(A2509)	A2509.1	86.81	208	85.48	78.13	8.55	86.68	60.00	YES
35		A2509.2	86.81	208	86.15	78.13	8.62	86.74	60.00	YES
36		A2509.3	86.81	208	86.54	78.13	8.65	86.78	60.00	YES
37		A2509.4	86.81	208	85.87	78.13	8.59	86.72	60.00	YES
38		A2509.5	86.81	208	84.33	78.13	8.43	86.56	60.00	YES
39	Computer Aided Engineering Drawing Lab(A2306)	A2306.1	94.97	208	88.08	85.47	8.81	94.28	60.00	YES
40		A2306.2	94.97	208	88.85	85.47	8.88	94.36	60.00	YES
41		A2306.3	94.97	208	84.23	85.47	8.42	93.90	60.00	YES
42		A2306.4	94.97	208	87.12	85.47	8.71	94.18	60.00	YES
43		A2306.5	94.97	208	87.31	85.47	8.73	94.20	60.00	YES
IV SEMESTER - THEORY COURSES										
44	Environmental Science(A2011)	A2011.1	78.75	203.00	88.28	70.88	8.83	79.70	60.00	YES
45		A2011.2	70.16	203.00	87.88	63.15	8.79	71.93	60.00	YES
46		A2011.3	79.62	203.00	87.98	71.65	8.80	80.45	60.00	YES
47		A2011.4	80.48	203.00	87.00	72.43	8.70	81.13	60.00	YES
48		A2011.5	78.04	203.00	88.67	70.24	8.87	79.11	60.00	YES
49	Computer Architecture and Organization (A2510)	A2510.1	70.14	203.00	89.06	63.12	8.91	72.03	60.00	YES
50		A2510.2	70.16	203.00	84.93	63.14	8.49	71.63	60.00	YES
51		A2510.3	70.30	203.00	87.29	63.27	8.73	72.00	60.00	YES
52		A2510.4	64.40	203.00	86.40	57.96	8.64	66.60	60.00	YES
53		A2510.5	48.68	203.00	87.29	43.81	8.73	52.54	60.00	NO
54	Formal Languages and Automata Theory (A2511)	A2511.1	76.60	203.00	81.97	68.94	8.20	77.14	60.00	YES
55		A2511.2	80.48	203.00	88.08	72.43	8.81	81.24	60.00	YES
56		A2511.3	76.90	203.00	89.85	69.21	8.99	78.20	60.00	YES
57		A2511.4	81.00	203.00	82.17	72.90	8.22	81.11	60.00	YES
58		A2511.5	76.20	203.00	87.68	68.58	8.77	77.35	60.00	YES
59	Software Engineering (A2512)	A2512.1	72.19	203.00	90.34	64.97	9.03	74.01	60.00	YES
60		A2512.2	63.04	203.00	88.97	56.74	8.90	65.63	60.00	YES
61		A2512.3	74.72	203.00	91.63	67.25	9.16	76.41	60.00	YES
62		A2512.4	76.41	203.00	85.12	68.77	8.51	77.28	60.00	YES
63		A2512.5	76.79	203.00	86.21	69.11	8.62	77.73	60.00	YES
64	Unix Programming (A2513)	A2513.1	88.24	203.00	85.81	79.42	8.58	88.00	60.00	YES
65		A2513.2	82.45	203.00	86.01	74.21	8.60	82.81	60.00	YES

S. No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)	
66		A2513.3	67.97	203.00	85.81	61.17	8.58	69.75	60.00	YES	
67		A2513.4	86.06	203.00	83.35	77.45	8.33	85.79	60.00	YES	
68		A2513.5	86.18	203.00	88.47	77.56	8.85	86.41	60.00	YES	
69		Database Management Systems (A2514)	A2514.1	72.48	203.00	91.43	65.23	9.14	74.38	60.00	YES
70			A2514.2	64.46	203.00	88.28	58.02	8.83	66.85	60.00	YES
71	A2514.3		62.09	203.00	84.33	55.89	8.43	64.32	60.00	YES	
72	A2514.4		63.87	203.00	89.95	57.49	9.00	66.48	60.00	YES	
73	A2514.5		71.58	203.00	87.29	64.42	8.73	73.15	60.00	YES	
IV SEMESTER - LABORATORY COURSES											
74	Unix Programming Lab (A2515)	A2515.1	100.00	203	87.29	90.00	8.73	98.73	60.00	YES	
75		A2515.2	100.00	203	87.39	90.00	8.74	98.74	60.00	YES	
76		A2515.3	100.00	203	83.74	90.00	8.37	98.37	60.00	YES	
77		A2515.4	100.00	203	83.45	90.00	8.34	98.34	60.00	YES	
78		A2515.5	100.00	203	83.25	90.00	8.33	98.33	60.00	YES	
79	Database Management Systems Lab (A2516)	A2516.1	100.00	203	86.60	90.00	8.66	98.66	60.00	YES	
80		A2516.2	100.00	203	85.62	90.00	8.56	98.56	60.00	YES	
81		A2516.3	100.00	203	90.84	90.00	9.08	99.08	60.00	YES	
82		A2516.4	100.00	203	88.77	90.00	8.88	98.88	60.00	YES	
83		A2516.5	100.00	203	87.88	90.00	8.79	98.79	60.00	YES	

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TARGET IS 60 % OF STUDENTS GETTING EQUAL AND GREATER THAN 60% OF MARKS IN ALL COURSES										
ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH										
V SEMESTER - THEORY COURSES										
1	Microprocessors and Interfacing (A2419)	A2419.1	38.03	216	81.57	34.23	8.16	42.39	60.00	NO
2		A2419.2	39.89	216	82.22	35.90	8.22	44.12	60.00	NO
3		A2419.3	39.53	216	82.87	35.58	8.29	43.86	60.00	NO
4		A2419.4	39.64	216	82.87	35.68	8.29	43.96	60.00	NO
5		A2419.5	39.07	216	82.78	35.16	8.28	43.44	60.00	NO
6	Computer Networks (A2602)	A2602.1	58.11	216	83.24	52.30	8.32	60.62	60.00	YES
7		A2602.2	62.00	216	83.52	55.80	8.35	64.15	60.00	YES
8		A2602.3	48.60	216	84.17	43.74	8.42	52.16	60.00	NO
9		A2602.4	45.32	216	85.83	40.79	8.58	49.37	60.00	NO
10		A2602.5	46.61	216	82.31	41.95	8.23	50.18	60.00	NO
11	Web Technologies (A2603)	A2603.1	65.20	216	84.07	58.68	8.41	67.09	60.00	YES
12		A2603.2	63.14	216	83.33	56.82	8.33	65.16	60.00	YES
13		A2603.3	62.66	216	83.52	56.40	8.35	64.75	60.00	YES
14		A2603.4	56.59	216	83.70	50.94	8.37	59.31	60.00	NO
15		A2603.5	67.17	216	84.81	60.46	8.48	68.94	60.00	YES
16		A2603.6	59.37	216	88.33	53.43	8.83	62.27	60.00	YES
17	Mobile Application Development	A2604.1	80.55	216	86.11	72.50	8.61	81.11	60.00	YES
18		A2604.2	76.31	216	87.04	68.68	8.70	77.38	60.00	YES

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19	(A2604)	A2604.3	76.59	216	81.67	68.93	8.17	77.10	60.00	YES
20		A2604.4	77.78	216	82.13	70.00	8.21	78.21	60.00	YES
21		A2604.5	74.77	216	81.02	67.29	8.10	75.39	60.00	YES
22	Compiler Design (A2517)	A2517.1	65.81	216	84.44	59.23	8.44	67.68	60.00	YES
23		A2517.2	65.66	216	82.87	59.10	8.29	67.38	60.00	YES
24		A2517.3	56.36	216	83.06	50.72	8.31	59.03	60.00	NO
25		A2517.4	52.71	216	84.63	47.44	8.46	55.90	60.00	NO
26		A2517.5	56.29	216	85.37	50.66	8.54	59.20	60.00	NO
27	Principles of programming Languages (A2518)	A2518.1	62.93	216	83.70	56.64	8.37	65.01	60.00	YES
28		A2518.2	58.69	216	82.13	52.82	8.21	61.03	60.00	YES
29		A2518.3	63.93	216	88.06	57.54	8.81	66.34	60.00	YES
30		A2518.4	60.21	216	87.59	54.19	8.76	62.95	60.00	YES
31		A2518.5	55.94	216	82.87	50.35	8.29	58.63	60.00	NO
V SEMESTER - LABORATORY COURSES										
32	Microprocessors and Interfacing Lab(A2424)	A2424	99.65	216	83.15	89.68	8.31	98.00	60.00	YES
33		A2424	99.65	216	83.70	89.68	8.37	98.05	60.00	YES
34		A2424	99.65	216	82.13	89.68	8.21	97.89	60.00	YES
35		A2424	99.65	216	85.09	89.68	8.51	98.19	60.00	YES
36	Web Technologies Lab(A2606)	A2606.1	97.07	216	85.28	87.36	8.53	95.89	60.00	YES
37		A2606.2	97.07	210	86.19	87.36	8.62	95.98	60.00	YES
38		A2606.3	97.07	216	85.09	87.36	8.51	95.87	60.00	YES
39		A2606.4	97.07	216	84.26	87.36	8.43	95.79	60.00	YES
40		A2606.5	97.07	216	82.59	87.36	8.26	95.62	60.00	YES
VI SEMESTER - THEORY COURSES										
41	Embedded Systems(A2425)	A2425.1	77.36	203	81.77	69.63	8.18	77.80	60.00	YES
42		A2425.2	75.06	203	80.89	67.55	8.09	75.64	60.00	YES
43		A2425.3	80.25	203	81.77	72.22	8.18	80.40	60.00	YES
44		A2425.4	77.02	203	81.67	69.32	8.17	77.49	60.00	YES
45		A2425.5	92.47	203	80.59	83.22	8.06	91.28	60.00	YES
46	Network Security and Cryptography (A2607)	A2607.1	73.64	203	82.66	66.28	8.27	74.54	60.00	YES
47		A2607.2	80.47	203	84.43	72.43	8.44	80.87	60.00	YES
48		A2607.3	78.04	206	83.20	70.24	8.32	78.56	60.00	YES
49		A2607.4	73.71	203	81.48	66.34	8.15	74.49	60.00	YES
50		A2607.5	73.71	203	83.65	66.34	8.36	74.70	60.00	YES
51		A2607.6	52.52	203	81.18	47.27	8.12	55.39	60.00	NO
52	Open Source Technologies (A2608)	A2608.1	83.30	203	82.07	74.97	8.21	83.17	60.00	YES
53		A2608.2	80.96	203	81.77	72.86	8.18	81.04	60.00	YES
54		A2608.3	78.68	203	83.35	70.82	8.33	79.15	60.00	YES
55		A2608.4	76.41	203	82.07	68.77	8.21	76.98	60.00	YES
56	Artificial Intelligence (A2519)	A2519.1	46.58	203	79.90	41.92	7.99	49.91	60.00	NO
57		A2519.2	46.64	203	84.53	41.97	8.45	50.43	60.00	NO
58		A2519.3	49.35	203	83.55	44.41	8.35	52.77	60.00	NO
59		A2519.4	45.86	203	81.97	41.27	8.20	49.47	60.00	NO
60		A2519.5	46.74	203	82.66	42.06	8.27	50.33	60.00	NO
61	Object Oriented	A2520.1	86.55	203	82.07	77.89	8.21	86.10	60.00	YES

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62	Analysis and Design(A2520)	A2520.2	74.74	203	80.30	67.27	8.03	75.30	60.00	YES
63		A2520.3	87.65	203	82.66	78.89	8.27	87.15	60.00	YES
64		A2520.4	85.05	203	84.04	76.55	8.40	84.95	60.00	YES
65		A2520.5	94.08	203	84.33	84.67	8.43	93.11	60.00	YES
66	ENTREPRENEURSHIP (A2017)	A2017.1	76.44	203	81.87	68.80	8.19	76.99	60.00	YES
67		A2017.2	72.22	203	83.35	65.00	8.33	73.33	60.00	YES
68		A2017.3	77.93	203	82.76	70.13	8.28	78.41	60.00	YES
69		A2017.4	75.50	203	80.79	67.95	8.08	76.03	60.00	YES
70		A2017.5	75.45	203	83.55	67.90	8.35	76.26	60.00	YES
IV SEMESTER - LABORATORY COURSES										
71	Open Source Technologies Lab (A2609)	A2609.1	100.00	203	82.76	90.00	8.28	98.28	60.00	YES
72		A2609.2	100.00	203	83.55	90.00	8.35	98.35	60.00	YES
73		A2609.3	100.00	203	81.87	90.00	8.19	98.19	60.00	YES
74		A2609.4	100.00	203	81.97	90.00	8.20	98.20	60.00	YES
75		A2609.5	100.00	203	83.45	90.00	8.34	98.34	60.00	YES
76	Object Oriented Analysis and Design Lab (A2521)	A2521.1	100.00	203	81.97	90.00	8.20	98.20	60.00	YES
77		A2521.2	100.00	203	81.87	90.00	8.19	98.19	60.00	YES
78		A2521.3	100.00	203	82.96	90.00	8.30	98.30	60.00	YES
79		A2521.4	100.00	203	79.80	90.00	7.98	97.98	60.00	YES
80		A2521.5	100.00	203	84.83	90.00	8.48	98.48	60.00	YES

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TARGET IS 60 % OF STUDENTS GETTING EQUAL AND GREATER THAN 60% OF MARKS IN ALL COURSES										
ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH										
VII SEMESTER - THEORY COURSES										
1	Cloud Computing (A2611)	A2611.1	72.73	238	78.66	65.46	7.87	73.32	60.00	YES
2		A2611.2	66.39	238	80.17	59.75	8.02	67.77	60.00	YES
3		A2611.3	71.26	238	82.27	64.14	8.23	72.36	60.00	YES
4		A2611.4	65.94	238	81.85	59.34	8.18	67.53	60.00	YES
5		A2611.5	63.80	238	82.35	57.42	8.24	65.65	60.00	YES
6	Cyber Security (A2612)	A2612.1	61.48	238	78.49	55.33	7.85	63.18	60.00	YES
7		A2612.2	53.10	238	80.42	47.79	8.04	55.83	60.00	NO
8		A2612.3	50.14	238	82.94	45.13	8.29	53.42	60.00	NO
9		A2612.4	47.60	238	82.61	42.84	8.26	51.10	60.00	NO
10		A2612.5	47.19	238	83.28	42.47	8.33	50.80	60.00	NO
11	Software Project Management (A2522)	A2522.1	61.18	238	84.12	55.07	8.41	63.48	60.00	YES
12		A2522.2	64.26	238	83.45	57.84	8.34	66.18	60.00	YES
13		A2522.3	76.62	238	83.78	68.96	8.38	77.34	60.00	YES
14		A2522.4	67.49	238	75.88	60.74	7.59	68.33	60.00	YES
15		A2522.5	62.72	238	81.68	56.44	8.17	64.61	60.00	YES
16	Data Mining and Data Warehousing	A2523.1	74.27	238	82.10	66.84	8.21	75.05	60.00	YES
17		A2523.2	76.62	238	82.86	68.96	8.29	77.24	60.00	YES

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18	(A2523)	A2523.3	81.19	238	84.29	73.07	8.43	81.50	60.00	YES
19		A2523.4	74.71	238	86.39	67.24	8.64	75.88	60.00	YES
20		A2523.5	86.42	238	86.89	77.78	8.69	86.47	60.00	YES
21	Air Pollution And Control Methodologies (A2154)	A2154.1	72.39	238	84.54	65.15	8.45	73.61	60.00	YES
22		A2154.2	71.17	238	87.65	64.05	8.76	72.82	60.00	YES
23		A2154.3	70.43	238	82.27	63.38	8.23	71.61	60.00	YES
24		A2154.4	72.64	238	83.95	65.38	8.39	73.77	60.00	YES
25		A2154.5	74.26	238	83.28	66.83	8.33	75.16	60.00	YES
26	Operations Research (A2155)	A2155.1	89.59	238	83.61	80.63	8.36	88.99	60.00	YES
27		A2155.2	88.25	238	84.62	79.43	8.46	87.89	60.00	YES
28		A2155.3	86.11	238	87.23	77.50	8.72	86.22	60.00	YES
29		A2155.4	89.42	238	84.79	80.47	8.48	88.95	60.00	YES
30		A2155.5	86.19	238	81.68	77.57	8.17	85.74	60.00	YES
31	Computer Graphics (A2614)	A2614.1	69.92	238	82.27	62.93	8.23	71.16	60.00	YES
32		A2614.2	69.94	238	82.35	62.95	8.24	71.18	60.00	YES
33		A2614.3	64.75	238	83.19	58.27	8.32	66.59	60.00	YES
34		A2614.4	51.63	238	82.35	46.47	8.24	54.70	60.00	NO
35		A2614.5	45.86	238	85.63	41.28	8.56	49.84	60.00	NO
36	Distributed Operating Systems (A2527)	A2527.1	75.74	238	83.36	68.17	8.34	76.50	60.00	YES
37		A2527.2	58.73	238	84.45	52.85	8.45	61.30	60.00	YES
38		A2527.3	66.13	238	84.87	59.52	8.49	68.01	60.00	YES
39		A2527.4	76.16	238	86.89	68.55	8.69	77.24	60.00	YES
40		A2527.5	69.49	238	84.45	62.54	8.45	70.99	60.00	YES
VII SEMESTER - LABORATORY COURSES										
41	Cloud Computing Lab (A2618)	A2618.1	100.00	238	85.38	90.00	8.54	98.54	60.00	YES
42		A2618.2	100.00	238	84.71	90.00	8.47	98.47	60.00	YES
43		A2618.3	100.00	238	85.04	90.00	8.50	98.50	60.00	YES
44		A2618.4	100.00	238	84.71	90.00	8.47	98.47	60.00	YES
45	Data Mining and Data Warehousing Lab (A2528)	A2528.1	100.00	238	81.93	90.00	8.19	98.19	60.00	YES
46		A2528.2	100.00	238	84.03	90.00	8.40	98.40	60.00	YES
47		A2528.3	100.00	238	86.89	90.00	8.69	98.69	60.00	YES
48		A2528.4	100.00	238	88.07	90.00	8.81	98.81	60.00	YES
49		A2528.5	100.00	238	87.90	90.00	8.79	98.79	60.00	YES
50	Mini Project (A2529)	A2529.1	100.00	238	86.22	90.00	8.62	98.62	60.00	YES
51		A2529.2	100.00	238	88.91	90.00	8.89	98.89	60.00	YES
52		A2529.3	100.00	238	86.81	90.00	8.68	98.68	60.00	YES
53		A2529.4	100.00	238	88.07	90.00	8.81	98.81	60.00	YES
54		A2529.5	100.00	238	85.13	90.00	8.51	98.51	60.00	YES
VIII SEMESTER - THEORY COURSES										
55	Professional Ethics and Intellectual Property Rights (A2015)	A2015.1	71.73	237	82.52	64.56	8.25	72.81	60.00	YES
56		A2015.2	69.31	237	81.68	62.38	8.17	70.55	60.00	YES
57		A2015.3	89.99	237	84.96	80.99	8.50	89.49	60.00	YES
58		A2015.4	89.74	237	85.38	80.77	8.54	89.31	60.00	YES
59		A2015.5	79.36	237	86.39	71.42	8.64	80.06	60.00	YES
60	Software Testing	A2613.1	64.87	237	86.64	58.39	8.66	67.05	60.00	YES

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61	and Quality Assurance (A2613)	A2613.2	65.18	237	86.47	58.67	8.65	67.31	60.00	YES
62		A2613.3	55.74	237	85.38	50.17	8.54	58.71	60.00	NO
63		A2613.4	55.51	237	85.80	49.96	8.58	58.54	60.00	NO
64		A2613.5	62.33	237	85.63	56.10	8.56	64.66	60.00	YES
65	Information Retrieval Systems (A2626)	A2626.1	77.26	237	87.82	69.53	8.78	78.31	60.00	YES
66		A2626.2	74.16	237	87.23	66.75	8.72	75.47	60.00	YES
67		A2626.3	49.13	237	87.23	44.22	8.72	52.94	60.00	NO
68		A2626.4	70.34	237	85.55	63.31	8.55	71.86	60.00	YES
69		A2626.5	79.01	237	84.29	71.11	8.43	79.54	60.00	YES
VIII SEMESTER - LABORATORY COURSES										
70	Industry Oriented Design lab (A2537)	A2537.1	70.80	237	85.99	63.72	8.60	72.32	60.00	YES
71		A2537.2	70.80	237	86.50	63.72	8.65	72.37	60.00	YES
72		A2537.3	70.80	237	87.85	63.72	8.78	72.50	60.00	YES
73		A2537.4	70.80	237	87.68	63.72	8.77	72.49	60.00	YES
74		A2537.5	70.80	237	86.33	63.72	8.63	72.35	60.00	YES
75	Technical Seminar (A2538)	A2538.1	100.00	237	89.11	90.00	8.91	98.91	60.00	YES
76		A2538.2	100.00	237	89.87	90.00	8.99	98.99	60.00	YES
77		A2538.3	100.00	237	83.29	90.00	8.33	98.33	60.00	YES
78	Comprehensive Viva (A2539)	A2539.1	87.50	237	85.82	78.75	8.58	87.33	60.00	YES
79		A2539.2	87.50	237	88.35	78.75	8.84	87.59	60.00	YES
80		A2539.3	87.50	237	84.98	78.75	8.50	87.25	60.00	YES
81		A2539.4	87.50	237	86.50	78.75	8.65	87.40	60.00	YES
82		A2539.5	87.50	237	86.24	78.75	8.62	87.37	60.00	YES
83	Project Work (A2540)	A2540.1	87.50	237	88.19	78.75	8.82	87.57	60.00	YES
84		A2540.2	87.50	237	89.37	78.75	8.94	87.69	60.00	YES
85		A2540.3	87.50	237	88.44	78.75	8.84	87.59	60.00	YES
86		A2540.4	87.50	237	89.37	78.75	8.94	87.69	60.00	YES
87		A2540.5	87.50	237	86.75	78.75	8.68	87.43	60.00	YES

3.3. Attainment of Program Outcomes and Program Specific Outcomes (75)

3.3.1. Describe assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes (10)

(Describe the assessment tools and processes used to gather the data upon which the evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)

Program Outcomes and Program Specific Outcomes of the Program are attained by using two methods:

- Direct Assessment
- Indirect Assessment

S. NO	COURSE NAME	COURSE CODE	PO AT Through DA in %													
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PS01	PS02
10	Network Security and Cryptography	A2607	63.99	72.96		68.43	61.62									
11	Open Source Technologies	A2608					81.9						87.94	79.52		
12	Artificial Intelligence	A2519	37.31	48.76	38.08	49.8	37.35	37.35	39.48	39.48	36.69	37.31	39.48	37.39		
13	Object Oriented Analysis and Design	A2520	86.55	79.46	82.49				94.08			85.05		85.05		81.2
14	ENTREPRENEURS HIP	A2017							76.44	73.86			77.1			
15	Open Source Technologies Lab	A2609			100	100	100						100	100		100
16	Object Oriented Analysis and Design Lab	A2521	100	100	100		100						100			100
PO AT in % after III Year			67.62	66.18	71.95	69.24	74.78	69.29	56.67	39.48	71.65	51.38	73.88	68.38	81.09	91.9
IV Year Courses																
1	Cloud Computing	A2611	67.22	85.57	66.66		67.62	68.53	68.53	68.53			68.53	68.53		
2	Cyber Security	A2612			47.19	47.6	54.06		50.14							
3	Software Project Management	A2522	63.64				64.26	15.3	61.17	61.17			9.14			76.33
4	Data Mining and Data Warehousing	A2523	74.27	74.62	86.42		77.95			81.19			80.57			
5	Air Pollution & Control Methodologies	A2153		71.71	73.33	74.26	71.41	72.16	72.39		74.26					
6	Operations Research	A2154	87.98	86.15			88.44				88.75	86.12	87.53	87.06	86.19	86.19
7	Computer Graphics	A2614	57.89		63.83		55.31									
8	Distributed Operating Systems	A2527	66.13	58.73	73.04		73.8							58.73		

S. NO	COURSE NAME	COURSE CODE	PO AT Through DA in %													
			P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PS02
9	Cloud Computing Lab	A2618	100	100	100		100	100	100	100			100	100		100
10	Data Mining and Data Warehousing Lab	A2528		100	100		100			100			100			100
11	Mini Project	A2529			100		100				100	100		100		
12	Project Work	A2540	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57
13	Professional Ethics and Intellectual Property Rights	A2015						80.03		83.26						
14	Software Testing and Quality Assurance	A2613		60.58	65.18		62.33									64.87
15	Information Retrieval Systems	A2626	74.16	73.92	75.71		59.74			79.01			64.07			
16	Industry Oriented Design lab	A2537			70.5		70.5									70.8
17	Technical Seminar	A2538							76.95					76.58		76.97
18	Comprehensive Viva	A2539	87.5	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57	99.57		
TOTAL PO DIRECT ATTAINMENTS IN %			76.62	82.76	80.07	80.25	77.78	76.45	78.54	85.81	92.43	96.31	78.77	86.25	86.19	82.16

Table B3.3.2a.1: PO & PSO Attainments through Direct Assessment

PO #	PO AT% THROUGH DA	TARGET %	ATTAINED (YES/NO)
P01	73.0717	60.00	YES
P02	74.46446	60.00	YES
P03	76.65805	60.00	YES
P04	74.12903	60.00	YES
P05	75.92346	60.00	YES
P06	82.04911	60.00	YES
P07	72.535	60.00	YES
P08	67.84704	60.00	YES
P09	78.75917	60.00	YES
P010	75.84875	60.00	YES
P011	77.71056	60.00	YES
P012	78.10367	60.00	YES
PS01	77.61944	60.00	YES
PS02	87.41435	60.00	YES

Summary Attainment of all POs & PSOs of the program:

Table B3.3.2a.2: Summary of POs & PSOs Attainments through Direct Assessment

PO #	PO AT% THROUGH DA	TARGET %	ATTAINED (YES/NO)
P01	73.0717	60.00	YES
P02	74.46446	60.00	YES
P03	76.65805	60.00	YES
P04	74.12903	60.00	YES
P05	75.92346	60.00	YES
P06	82.04911	60.00	YES
P07	72.535	60.00	YES
P08	67.84704	60.00	YES
P09	78.75917	60.00	YES
P010	75.84875	60.00	YES
P011	77.71056	60.00	YES
P012	78.10367	60.00	YES
PS01	77.61944	60.00	YES
PS02	87.41435	60.00	YES

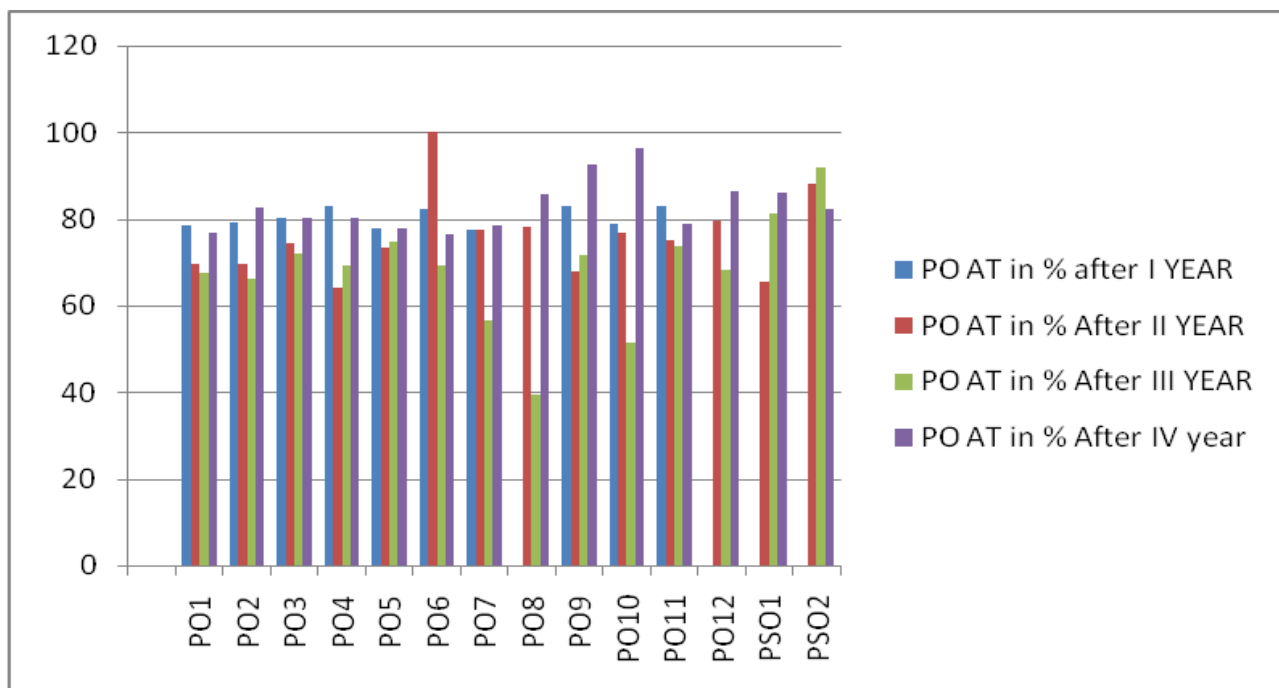


Fig. B3.3.2a. Complete PO & PSO attainments through direct Assessment

Conclusions: Assessment Tools identified have helped in achieving PO Attainments. They can be further strengthen Attainments.

Table B3.3. 2b.1.Complete PO & PSO attainments through indirect Assessment

COMPLETE PO & PSO ATTAINMENTS THROUGH INDIRECT ASSESSMENT															
S. NO	SURVEY	PO&PSO AT Through IDA in %													
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	Student Exit Survey	80.67	78.00	75.33	77.97	78.64	75.44	77.33	82.71	79.33	78.00	74.00	80.67	77.33	75.33
2	Co-Curricular Activities				85.65	92.50	85.80	91.25		94.56	92.50		87.88	89.56	90.15
3	Extra-Curricular Activities						92.25	89.35	90.87	92.25	94.65	91.65	88.33		
Total PO& PSO Attainment in % Through Indirect Assessment		77.79	76.82	76.30	79.77	83.14	82.49	82.56	84.86	86.03	86.45	82.42	83.33	81.59	81.71

**Summary Attainment of all POs & PSOs of the program through Indirect Attainment:
Table B3.3.2b.2: Summary of POs & PSOs Attainments through Indirect Assessment**

PO #	PO & PSO AT% Through In Direct Attainment	TARGET %	ATTAINED (YES/NO)
P01	77.79	75.00	YES
P02	76.82	75.00	YES
P03	76.30	75.00	YES
P04	79.77	75.00	YES
P05	83.14	75.00	YES
P06	82.49	75.00	YES
P07	82.56	75.00	YES
P08	84.86	75.00	YES
P09	86.03	75.00	YES
P010	86.45	75.00	YES
P011	82.42	75.00	YES
P012	83.33	75.00	YES
PSO1	81.59	75.00	YES
PSO2	81.71	75.00	YES

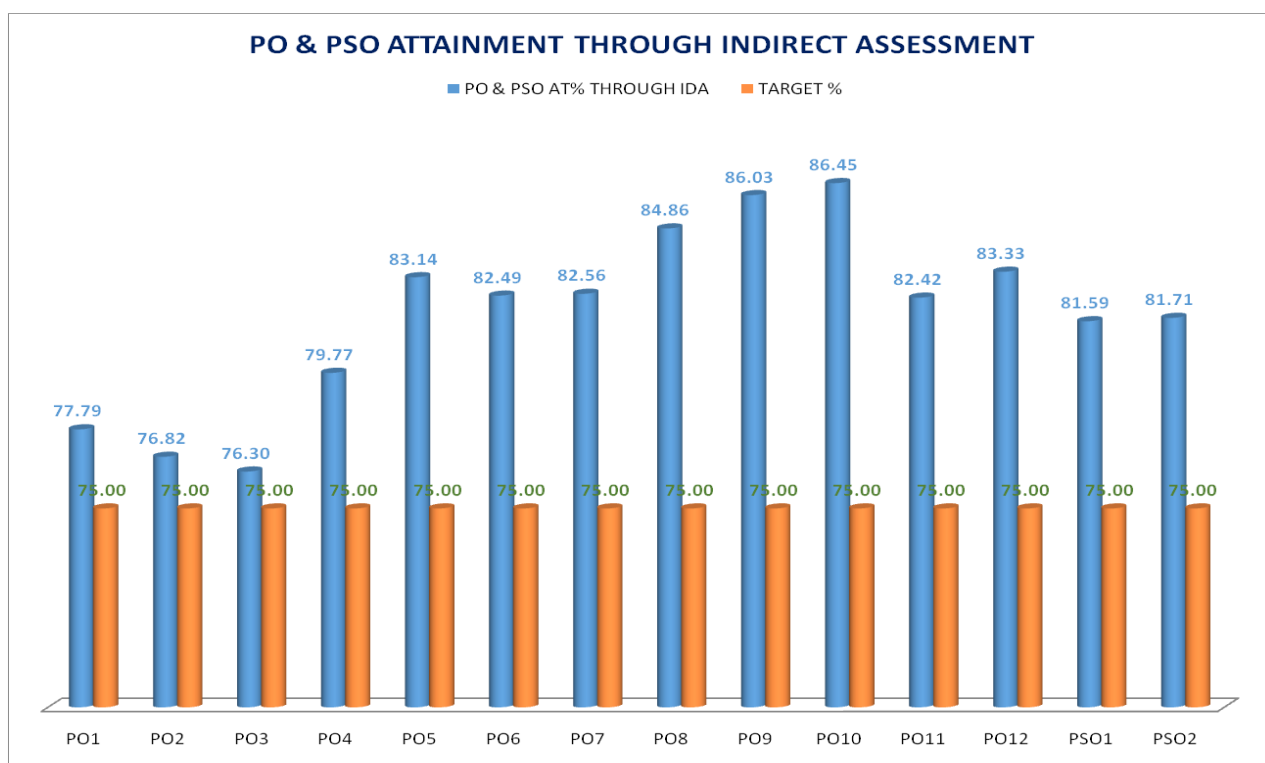
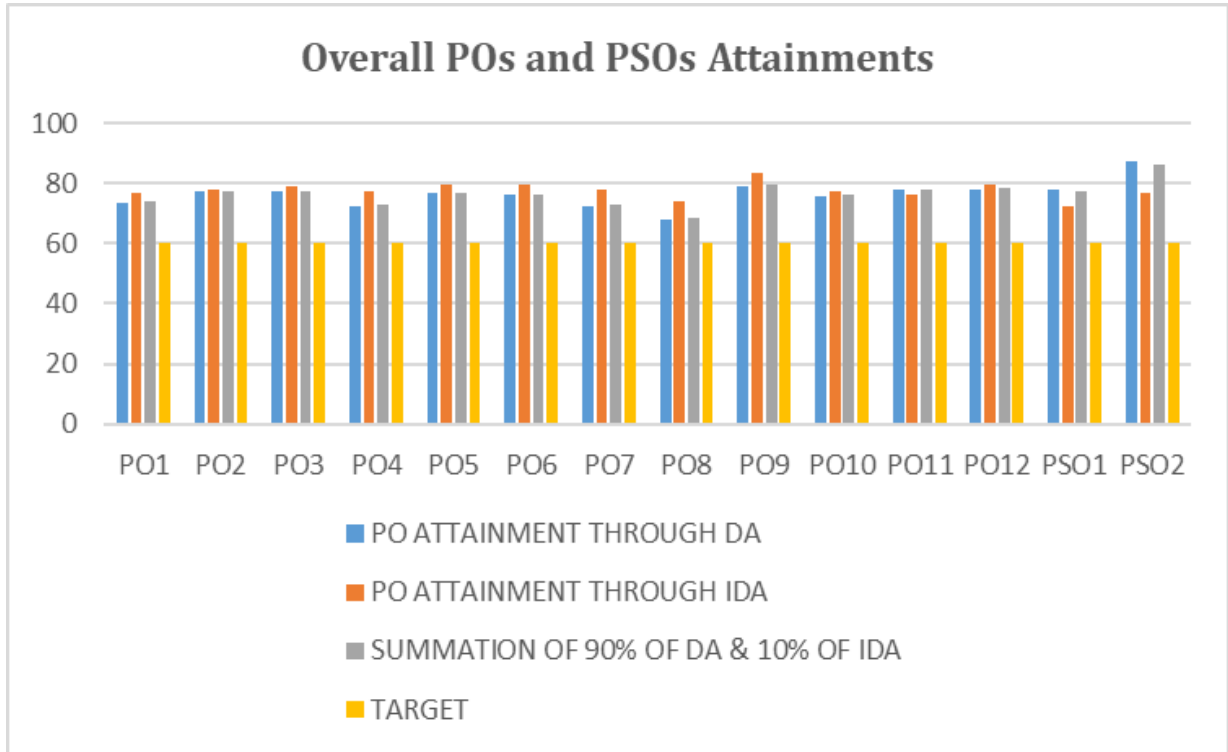


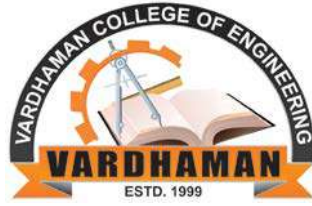
Fig. B3.3.2b. Complete PO & PSO attainments through indirect Assessment

Table B3.3.2b.3: Overall Attainments of POs and PSOs

SNO	PO	PO ATTAINMENT THROUGH DA	PO ATTAINMENT THROUGH IDA	SUMMATION OF 90% OF DA & 10% OF IDA	TARGET	TARGET ATTAINED (YES/NO)
1	PO1	73.60673	76.5654	73.90259549	60	YES
2	PO2	77.14181	78.00276	77.22790861	60	YES
3	PO3	77.17834	78.97262	77.35777026	60	YES
4	PO4	72.45336	77.55139	72.9631652	60	YES
5	PO5	76.6484	79.57869	76.94142901	60	YES
6	PO6	76.06548	79.59675	76.41860317	60	YES
7	PO7	72.535	77.8425	73.06575	60	YES
8	PO8	67.84704	74.11037	68.47337037	60	YES
9	PO9	78.75917	83.64267	79.24751667	60	YES
10	PO10	75.84875	77.1175	75.975625	60	YES
11	PO11	77.71056	76.3944	77.57893981	60	YES
12	PO12	78.10367	79.29888	78.2231875	60	YES
13	PSO1	77.61944	72.55556	77.11305556	60	YES
14	PSO2	87.41435	77.01398	86.3743119	60	YES

Fig: Overall POs and PSOs Attainments





Attainment of Course Outcomes, Program Outcomes and Program Specific Outcomes

DEPARTMENT OF
ELECTRICAL AND ELECTRONICS ENGINEERING

VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD
An autonomous institute, affiliated to JNTUH

CO Attainments of First Year courses through DA (CIE and SEE)

ATTAINMENT CALCULATIONS OF COs OF FIRST YEAR COURSES THROUGH DA(SEE & CIE) FOR 2014-2018 BATCH																
S. No	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+ MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
I SEMESTER - THEORY COURSES																
1	MATHEMATICS - I A201	A2001.1	73.86		38.94	43.24	36.93	5.84	6.49	61.57	46.73	49.25	9.35	58.60	60.00	NO
2		A2001.2	73.99		38.94	43.24	36.99	5.84	6.49	61.65	46.73	49.32	9.35	58.67	60.00	NO
3		A2001.3		80.88	38.94	43.24	40.44	5.84	6.49	65.96	46.73	52.77	9.35	62.11	60.00	YES
4		A2001.4		74.75	38.94	43.24	37.38	5.84	6.49	62.13	46.73	49.70	9.35	59.05	60.00	NO
5		A2001.5		80.82	38.94	43.24	40.41	5.84	6.49	65.92	46.73	52.74	9.35	62.08	60.00	YES
6	TECHNICAL ENGLISH A2005	A2005.1	90.79	98.44	48.67	61.61	47.31	7.30	9.24	79.81	66.97	63.85	13.39	77.24	60.00	YES
7		A2005.2	92.79		48.67	61.61	46.39	7.30	9.24	78.67	66.97	62.93	13.39	76.33	60.00	YES
8		A2005.3	40.19		48.67	61.61	20.10	7.30	9.24	45.80	66.97	36.64	13.39	50.03	60.00	NO
9		A2005.4		99.39	48.67	61.61	49.69	7.30	9.24	82.79	66.97	66.23	13.39	79.63	60.00	YES
10		A2005.5		97.17	48.67	61.61	48.59	7.30	9.24	81.41	66.97	65.13	13.39	78.52	60.00	YES
11	PROBABILITY THEORY AND COMPUTATIONAL METHODS A2004	A2004.1	83.36		49.56	20.72	41.68	7.43	3.11	65.28	54.13	52.22	10.83	63.05	60.00	YES
12		A2004.2	62.36		49.56	20.72	31.18	7.43	3.11	52.15	54.13	41.72	10.83	52.55	60.00	NO
13		A2004.3		69.22	49.56	20.72	34.61	7.43	3.11	56.44	54.13	45.15	10.83	55.98	60.00	NO
14		A2004.4		74.22	49.56	20.72	37.11	7.43	3.11	59.56	54.13	47.65	10.83	58.48	60.00	NO
15		A2004.5		61.84	49.56	20.72	30.92	7.43	3.11	51.83	54.13	41.46	10.83	52.29	60.00	NO

16	BASIC ELECTRICAL ENGINEERING A2201	A2201.1	80.22	66.37	45.13	37.04	36.65	6.77	5.56	61.21	44.95	48.97	8.99	57.96	60.00	NO
17		A2201.2	79.67	83.46	45.13	37.04	40.78	6.77	5.56	66.38	44.95	53.11	8.99	62.10	60.00	YES
18	ENGINEERING A2201	A2201.3	73.02		45.13	37.04	36.51	6.77	5.56	61.04	44.95	48.84	8.99	57.83	60.00	NO
19		A2201.4		74.05	45.13	37.04	37.03	6.77	5.56	61.69	44.95	49.35	8.99	58.34	60.00	NO
21	COMPUTER PROGRAMMING A2501	A2501.1	75.13		80.53	34.23	37.56	12.08	5.14	68.47	25.69	54.78	5.14	59.91	60.00	NO
22		A2501.2	67.32		80.53	34.23	33.66	12.08	5.14	63.60	25.69	50.88	5.14	56.01	60.00	NO
23		A2501.3	40.19	92.21	80.53	34.23	33.10	12.08	5.14	62.89	25.69	50.31	5.14	55.45	60.00	NO
24		A2501.4	81.51		80.53	34.23	40.76	12.08	5.14	72.46	25.69	57.97	5.14	63.11	60.00	YES
25		A2501.5		91.96	80.53	34.23	45.98	12.08	5.14	78.99	25.69	63.20	5.14	68.33	60.00	YES
26		A2501.6		93.96	80.53	34.23	46.98	12.08	5.14	80.24	25.69	64.19	5.14	69.33	60.00	YES
I SEMESTER - LABORATORY COURSES																
S. No	Course Name & Code	CO#								CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
27	COMPUTER PROGRAMMING LAB A2502	A2502.1								95.58	91.07	76.46	18.21	94.67	60.00	YES
28		A2502.2								95.58	91.07	76.46	18.21	94.67	60.00	YES
29		A2502.3								95.58	91.07	76.46	18.21	94.67	60.00	YES
30		A2502.4								95.58	91.07	76.46	18.21	94.67	60.00	YES
31		A2502.5								95.58	91.07	76.46	18.21	94.67	60.00	YES
32		A2502.6								95.58	91.07	76.46	18.21	94.67	60.00	YES
33	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB A2009	A2009.1								99.12	100.00	79.29	20.00	99.29	60.00	YES
34		A2009.2								99.12	100.00	79.29	20.00	99.29	60.00	YES
35		A2009.3								99.12	100.00	79.29	20.00	99.29	60.00	YES
36		A2009.4								99.12	100.00	79.29	20.00	99.29	60.00	YES

37		A2009.5								99.12	100.00	79.29	20.00	99.29	60.00	YES
38	COMPUTER AIDED ENGINEERING DRAWING LAB A2306	A2306.1								98.23	98.21	78.58	19.64	98.23	60.00	YES
39		A2306.2								98.23	98.21	78.58	19.64	98.23	60.00	YES
40		A2306.3								98.23	98.21	78.58	19.64	98.23	60.00	YES
41		A2306.4								98.23	98.21	78.58	19.64	98.23	60.00	YES
42		A2306.5								98.23	98.21	78.58	19.64	98.23	60.00	YES
II SEMESTER - THEORY COURSES																
S. No	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
43	MATHEMATICS-II A2010	A2010.1	76.01		78.95	61.06	38.01	11.84	9.16	73.76	48.70	59.01	9.74	68.75	60.00	YES
44		A2010.2	68.50		78.95	61.06	34.25	11.84	9.16	69.06	48.70	55.25	9.74	64.99	60.00	YES
45		A2010.3		80.39	78.95	61.06	40.20	11.84	9.16	76.50	48.70	61.20	9.74	70.94	60.00	YES
46		A2010.4		72.12	78.95	61.06	36.06	11.84	9.16	71.33	48.70	57.06	9.74	66.80	60.00	YES
47		A2010.5		65.56	78.95	61.06	32.78	11.84	9.16	67.23	48.70	53.78	9.74	63.52	60.00	YES
48	DATA STRUCTURES THROUGH C A2503	A2503.1	90.51		86.44	57.66	45.26	12.97	8.65	83.59	45.95	66.87	9.19	76.06	60.00	YES
49		A2503.2	92.85		86.44	57.66	46.43	12.97	8.65	85.05	45.95	68.04	9.19	77.23	60.00	YES
50		A2503.3		88.81	86.44	57.66	44.40	12.97	8.65	82.52	45.95	66.02	9.19	75.21	60.00	YES
51		A2503.4		72.16	86.44	57.66	36.08	12.97	8.65	72.12	45.95	57.69	9.19	66.88	60.00	YES
52		A2503.5		83.17	86.44	57.66	41.59	12.97	8.65	79.00	45.95	63.20	9.19	72.39	60.00	YES
53	ENGINEERING PHYSICS A2002	A2002.1	70.84		59.65	69.91	35.42	8.95	10.49	68.57	60.87	54.85	12.17	67.03	60.00	YES
54		A2002.2	65.28		59.65	69.91	32.64	8.95	10.49	65.09	60.87	52.08	12.17	64.25	60.00	YES
55		A2002.3		73.97	59.65	69.91	36.99	8.95	10.49	70.52	60.87	56.42	12.17	68.59	60.00	YES
56		A2002.4		73.81	59.65	69.91	36.91	8.95	10.49	70.43	60.87	56.34	12.17	68.51	60.00	YES
57		A2002.5		86.78	59.65	69.91	43.39	8.95	10.49	78.53	60.87	62.82	12.17	75.00	60.00	YES

58	ENGINEERING CHEMISTRY A2003	A2003.1	81.10		91.23	71.68	40.55	13.68	10.75	81.23	68.70	64.99	13.74	78.72	60.00	YES
59		A2003.2	70.82		91.23	71.68	35.41	13.68	10.75	74.81	68.70	59.85	13.74	73.59	60.00	YES
60		A2003.3		80.39	91.23	71.68	40.20	13.68	10.75	80.79	68.70	64.63	13.74	78.37	60.00	YES
61		A2003.4		72.12	91.23	71.68	36.06	13.68	10.75	75.62	68.70	60.50	13.74	74.24	60.00	YES
62		A2003.5		65.56	91.23	71.68	32.78	13.68	10.75	71.52	68.70	57.22	13.74	70.96	60.00	YES
63	ELECTRONIC DEVICES A2401	A2401.1	59.16		67.26	63.72	29.58	10.09	9.56	61.53	26.09	49.23	5.22	54.44	60.00	NO
64		A2401.2	63.69	72.61	67.26	63.72	34.07	10.09	9.56	67.15	26.09	53.72	5.22	58.94	60.00	NO
65		A2401.3		73.11	67.26	63.72	36.55	10.09	9.56	70.25	26.09	56.20	5.22	61.42	60.00	YES
66		A2401.4		74.70	67.26	63.72	37.35	10.09	9.56	71.24	26.09	56.99	5.22	62.21	60.00	YES
II SEMESTER - LABORATORY COURSES																
S. No	Course Name & Code	CO#								CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
67	ENGINEERING PHYSICS AND ENGINEERING CHEMISTRY LAB A2008	A2008.1								100.00	100.00	80.00	20.00	100.00	60.00	YES
70		A2008.2								100.00	100.00	80.00	20.00	100.00	60.00	YES
71		A2008.3								100.00	100.00	80.00	20.00	100.00	60.00	YES
72		A2008.4								100.00	100.00	80.00	20.00	100.00	60.00	YES
73		A2008.5								100.00	100.00	80.00	20.00	100.00	60.00	YES
74		A2008.6								100.00	100.00	80.00	20.00	100.00	60.00	YES
75	DATA STRUCTURES THROUGH C LAB A2504	A2504.1								100.00	99.12	80.00	19.82	99.82	60.00	YES
76		A2504.2								100.00	99.12	80.00	19.82	99.82	60.00	YES
77		A2504.3								100.00	99.12	80.00	19.82	99.82	60.00	YES
78		A2504.4								100.00	99.12	80.00	19.82	99.82	60.00	YES
79		A2504.5								100.00	99.12	80.00	19.82	99.82	60.00	YES

80	ELECTRONIC DEVICES LAB A2404	A2404.1		92.04	94.69	73.63	18.94	92.57	60.00	YES
81		A2404.2		92.04	94.69	73.63	18.94	92.57	60.00	YES
82		A2404.3		92.04	94.69	73.63	18.94	92.57	60.00	YES
83		A2404.4		92.04	94.69	73.63	18.94	92.57	60.00	YES
84		A2404.5		92.04	94.69	73.63	18.94	92.57	60.00	YES

CO Attainments of Second Year courses through DA (CIE and SEE)

ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA(SEE & CIE) FOR 2014-2018 BATCH																
S. No	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+ MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
III SEMESTER - THEORY COURSES																
1	MATHEMATICS-III A2010	A2010.1	69.05		56.82	57.69	34.53	8.52	8.65	64.63	60.31	51.70	12.06	63.76	60.00	YES
2		A2010.2	58.83		56.81	57.92	29.42	8.52	8.65	58.24	60.31	46.59	12.06	58.66	60.00	NO
3		A2010.3		79.38	56.81	57.92	39.69	8.52	8.65	71.09	60.31	56.87	12.06	68.93	60.00	YES
4		A2010.4		61.82	56.81	57.69	30.91	8.52	8.65	60.11	60.31	48.09	12.06	60.15	60.00	YES
5		A2010.5		63.80	56.81	57.92	31.90	8.52	8.65	61.35	60.31	49.08	12.06	61.14	60.00	YES
6	NETWORK ANALYSIS A2202	A2202.1	52.55		71.21	50.76	26.28	10.68	7.615	55.72	40.15	44.58	8.03	52.61	60.00	NO
7		A2202.2	59.82		71.21	50.76	29.91	10.68	7.615	60.26	40.15	48.21	8.03	56.24	60.00	NO
8		A2202.3	39.39		71.22	50.76	19.70	10.68	7.615	47.49	40.15	37.99	8.03	46.02	60.00	NO
9		A2202.4		72.17	71.21	50.76	36.09	10.68	7.615	67.98	40.15	54.38	8.03	62.41	60.00	YES
10		A2202.5		77.03	71.21	50.76	38.52	10.68	7.615	71.02	40.15	56.81	8.03	64.84	60.00	YES
11		A2202.6		70.25	71.21	50.76	35.13	10.68	7.615	66.78	40.15	53.42	8.03	61.45	60.00	YES
12	ELECTRICAL MACHINES-I A2203	A2203.1		76.47	83.33	48.46	38.24	12.5	7.26	72.51	66.67	58.00	13.33	71.34	60.00	YES
13		A2203.2	81.68		83.33	48.46	40.84	12.5	7.26	75.76	66.67	60.61	13.33	73.94	60.00	YES
14		A2203.3	50		83.33	48.46	25.00	12.5	7.26	55.96	66.67	44.77	13.33	58.10	60.00	NO
15		A2203.4		68.79	83.33	48.46	34.40	12.5	7.26	67.71	66.67	54.17	13.33	67.50	60.00	YES
16		A2203.5		60.33	83.33	48.46	30.17	12.5	7.26	62.42	66.67	49.94	13.33	63.27	60.00	YES
17	ELECTROMAGNETIC FIELDS A2204	A2204.1		78.75	54.54	72.30	39.38	8.18	10.84	73.00	50.38	58.40	10.08	68.48	60.00	YES
18		A2204.2	51.462	72.89	54.545	72.30	31.09	8.18	10.84	62.65	50.38	50.12	10.08	60.19	60.00	YES
19		A2204.3		75.2	54.545	72.30	37.60	8.18	10.84	70.78	50.38	56.63	10.08	66.70	60.00	YES
20		A2204.4		63.86	54.545	72.30	31.93	8.18	10.84	63.70	50.38	50.96	10.08	61.03	60.00	YES

21	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS A2012	A2012.1	64.53		60.606	64.61	32.27	9.09	9.69	63.81	28.24	51.05	5.65	56.70	60.00	NO
22		A2012.2	67.10		60.606	64.61	33.55	9.09	9.69	65.42	28.24	52.33	5.65	57.98	60.00	NO
23		A2012.3		41.68	60.606	64.61	20.84	9.09	9.69	49.53	28.24	39.63	5.65	45.27	60.00	NO
24		A2012.4		48.61	60.606	64.61	24.31	9.09	9.69	53.86	28.24	43.09	5.65	48.74	60.00	NO
25		A2012.5		47.37	60.606	64.61	23.69	9.09	9.69	53.09	28.24	42.47	5.65	48.12	60.00	NO
26		DIGITAL LOGIC DESIGN A2406	A2406.1	49.99		70.455	63.56	25.00	10.56	9.53	56.37	41.98	45.10	8.40	53.50	60.00
27	A2406.2		47.336		70.455	63.56	23.67	10.56	9.53	54.71	41.98	43.77	8.40	52.17	60.00	NO
28	A2406.3			67.67	70.455	63.56	33.84	10.56	9.53	67.43	41.98	53.94	8.40	62.34	60.00	YES
29	A2406.4			75.89	70.455	63.56	37.95	10.56	9.53	72.56	41.98	58.05	8.40	66.45	60.00	YES
30	A2406.5			69.21	70.455	63.56	34.61	10.56	9.53	68.39	41.98	54.71	8.40	63.11	60.00	YES

III SEMESTER - LABORATORY COURSES

S. No	Course Name & Code	CO#								CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
31	ELECTRIC CIRCUITS AND SIMULATION LAB A2205	A2205.1								91.67	84.73	73.33	16.95	90.28	60.00	YES
32		A2205.2								91.67	84.73	73.33	16.95	90.28	60.00	YES
33		A2205.3								91.67	84.73	73.33	16.95	90.28	60.00	YES
34		A2205.4								91.67	84.73	73.33	16.95	90.28	60.00	YES
35		A2205.4								91.67	84.73	73.33	16.95	90.28	60.00	YES
36		A2205.6								91.67	84.73	73.33	16.95	90.28	60.00	YES
37	DC MACHINES LAB A2206	A2206.1								98.48	95.35	78.79	19.07	97.86	60.00	YES
38		A2206.2								98.48	95.35	78.79	19.07	97.86	60.00	YES
39		A2206.3								98.48	95.35	78.79	19.07	97.86	60.00	YES
40		A2206.4								98.48	95.35	78.79	19.07	97.86	60.00	YES

IV SEMESTER - THEORY COURSES

S. No	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
41	SIGNALS AND SYSTEMS A2407	A2407.1	72.90		85.61	96.95	36.45	12.84	14.54	79.79	23.26	63.83	4.65	68.48	60.00	YES
42		A2407.2	74.61		85.61	96.95	37.30	12.84	14.54	80.86	23.26	64.69	4.65	69.34	60.00	YES
43		A2407.3	65.77	72.83	85.61	96.95	34.65	12.84	14.54	77.54	23.26	62.03	4.65	66.68	60.00	YES
44		A2407.4		70.50	85.61	96.95	35.25	12.84	14.54	78.29	23.26	62.63	4.65	67.28	60.00	YES
45		A2407.5		68.75	85.61	96.95	34.38	12.84	14.54	77.20	23.26	61.76	4.65	66.41	60.00	YES
46	ELECTRONIC CIRCUITS A2415	A2415.1	57.09		71.21	54.55	28.54	10.68	8.18	59.26	41.73	47.41	8.35	55.75	60.00	NO
47		A2415.2	56.47		71.21	54.55	28.23	10.68	8.18	58.87	41.73	47.10	8.35	55.44	60.00	NO
48		A2415.3		66.42	71.21	54.55	33.21	10.68	8.18	65.09	41.73	52.07	8.35	60.42	60.00	YES
49		A2415.4		44.91	71.21	54.55	22.45	10.68	8.18	51.65	41.73	41.32	8.35	49.66	60.00	NO
50		A2415.5		34.10	71.21	54.55	17.05	10.68	8.18	44.89	41.73	35.91	8.35	44.26	60.00	NO
51	POWER SYSTEM GENERATION A2207	A2207.1	79.25	88.18	96.21	50.76	41.86	14.43	7.61	79.88	34.11	63.90	6.82	70.72	60.00	YES
52		A2207.2	82.86	84.65	96.21	50.76	41.88	14.43	7.61	79.90	34.11	63.92	6.82	70.74	60.00	YES
53		A2207.3		81.85	96.21	50.76	40.93	14.43	7.61	78.71	34.11	62.97	6.82	69.79	60.00	YES
54		A2207.4	81.52		96.21	50.76	40.76	14.43	7.61	78.51	34.11	62.81	6.82	69.63	60.00	YES
55		A2207.5		70.13	96.21	50.76	35.07	14.43	7.61	71.39	34.11	57.11	6.82	63.93	60.00	YES
56	ELECTRICAL MACHINES - II A2208	A2208.1	74.26	75.27	54.96	66.67	37.38	8.24	10	69.53	35.16	55.63	7.03	62.66	60.00	YES
57		A2208.2	80.85	66.86	54.96	66.67	36.93	8.24	10	68.96	35.16	55.17	7.03	62.20	60.00	YES
58		A2208.3	68.13	86.01	54.96	66.67	38.53	8.24	10	70.97	35.16	56.78	7.03	63.81	60.00	YES
59		A2208.4	64.63		54.96	66.67	32.32	8.24	10	63.20	35.16	50.56	7.03	57.59	60.00	NO
60	CONTROL SYSTEMS A2209	A2209.1	85.27	76.92	80.30	90.91	40.55	12.05	13.63	82.79	23.44	66.23	4.69	70.92	60.00	YES
61		A2209.2	80.07		80.30	90.91	40.04	12.05	13.63	82.15	23.44	65.72	4.69	70.41	60.00	YES
62		A2209.3		87.42	80.30	90.91	43.71	12.05	13.63	86.74	23.44	69.39	4.69	74.08	60.00	YES
63		A2209.4		81.62	80.30	90.91	40.81	12.05	13.63	83.12	23.44	66.49	4.69	71.18	60.00	YES
64		A2209.5		65.00	80.30	90.91	32.50	12.05	13.63	72.73	23.44	58.18	4.69	62.87	60.00	YES
65	ENVIRONMENTAL SCIENCE A2011	A2011.1	99.09	98.28	96.21	48.85	49.34	14.43	7.32	88.88	33.59	71.10	6.72	77.82	60.00	YES
66		A2011.2		98.73	96.21	48.85	49.37	14.43	7.32	88.91	33.59	71.13	6.72	77.84	60.00	YES
67		A2011.3	94.12	97.53	96.21	48.85	47.91	14.43	7.32	87.09	33.59	69.67	6.72	76.39	60.00	YES
68		A2011.4	98.91	93.85	96.21	48.85	48.19	14.43	7.32	87.44	33.59	69.95	6.72	76.67	60.00	YES
69		A2011.5	98.08	96.15	96.21	48.85	48.56	14.43	7.32	87.90	33.59	70.32	6.72	77.04	60.00	YES

IV SEMESTER - LABORATORY COURSES

S. No	Course Name & Code	CO#		CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
70	AC MACHINES LAB A2210	A2210.1		99.25	94.74	79.40	18.95	98.35	60.00	YES
71		A2210.2		99.25	94.74	79.40	18.95	98.35	60.00	YES
72		A2210.3		99.25	94.74	79.40	18.95	98.35	60.00	YES
73		A2210.4		99.25	94.74	79.40	18.95	98.35	60.00	YES
74		A2210.5		99.25	94.74	79.40	18.95	98.35	60.00	YES
75	CONTROL SYSTEMS AND SIMULATION LAB A2211	A2211.1		95.52	97.76	76.42	19.55	95.97	60.00	YES
76		A2211.2		95.52	97.76	76.42	19.55	95.97	60.00	YES
77		A2211.3		95.52	97.76	76.42	19.55	95.97	60.00	YES
78		A2211.4		95.52	97.76	76.42	19.55	95.97	60.00	YES
79		A2211.5		95.52	97.76	76.42	19.55	95.97	60.00	YES

CO Attainments of Third Year courses through DA (CIE and SEE)

ATTAINMENT CALCULATIONS OF COs OF THIRD YEAR COURSES THROUGH DA (SEE & CIE) FOR 2014-2018 BATCH																
S. No	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+ MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
V SEMESTER - THEORY COURSES																
1	ELECTRICAL MEASUREMENTS & INSTRUMENTATION A2216	A2216.1	53.76		91.67	51.52	26.88	13.75	7.73	60.45	46.15	48.36	9.23	57.59	60.00	NO
2		A2216.2		63.33	91.67	51.52	31.67	13.75	7.73	66.43	46.15	53.14	9.23	62.37	60.00	YES
3		A2216.3		63.08	91.67	51.52	31.54	13.75	7.73	66.27	46.15	53.02	9.23	62.25	60.00	YES
4		A2216.4		45.18	91.67	51.52	22.59	13.75	7.73	55.08	46.15	44.07	9.23	53.30	60.00	NO
5		A2216.5		70.00	91.67	51.52	35.00	13.75	7.73	70.60	46.15	56.48	9.23	65.71	60.00	YES
6	INTEGRATED CIRCUITS APPLICATION	A2418.1	73.35		64.12	56.06	36.67	9.62	8.41	68.37	56.59	54.70	11.32	66.02	60.00	YES
7		A2418.2		63.66	64.12	56.06	31.83	9.62	8.41	62.32	56.59	49.86	11.32	61.18	60.00	YES
8		A2418.3		73.12	64.12	56.06	36.56	9.62	8.41	68.24	56.59	54.59	11.32	65.91	60.00	YES
9		A2418.4		63.10	47.31	64.12	56.06	27.60	9.62	8.41	57.04	56.59	45.63	11.32	56.95	60.00

	NS A2418																
10	COMPUTER	A2510.1	67.85		40.46	37.88	33.93	6.07	5.68	57.09	30.47	45.68	6.09	51.77	60.00	NO	
11	ARCHITECT	A2510.2	63.99	53.32	40.46	37.88	29.33	6.07	5.68	51.35	30.47	41.08	6.09	47.17	60.00	NO	
12	URE AND	A2510.3		47.18	40.46	37.88	23.59	6.07	5.68	44.17	30.47	35.34	6.09	41.43	60.00	NO	
13	ORGANIZAT	A2510.4		48.47	40.46	37.88	24.23	6.07	5.68	44.98	30.47	35.98	6.09	42.08	60.00	NO	
14	ION A2510	A2510.5		67.80	40.46	37.88	33.90	6.07	5.68	57.06	30.47	45.65	6.09	51.75	60.00	NO	
15	POWER	A2217.1	79.92		77.27	77.27	39.96	11.59	11.59	78.93	46.15	63.14	9.23	72.37	60.00	YES	
16	SYSTEM	A2217.2	64.79	83.66	77.27	77.27	37.11	11.59	11.59	75.37	46.15	60.29	9.23	69.52	60.00	YES	
17	TRANSMISSI	A2217.3		86.03	77.27	77.27	43.02	11.59	11.59	82.75	46.15	66.20	9.23	75.43	60.00	YES	
18	ON	A2217.4		69.71	77.27	77.27	34.86	11.59	11.59	72.55	46.15	58.04	9.23	67.27	60.00	YES	
19	A2217	A2217.5		57.36	77.27	77.27	28.68	11.59	11.59	64.82	46.15	51.86	9.23	61.09	60.00	YES	
20	OBJECT	A2508.1	74.61	92.29	79.55	57.58	41.72	11.93	8.64	77.87	37.69	62.29	7.54	69.83	60.00	YES	
21	ORIENTED	A2508.2	72.76	98.92	79.55	57.58	42.92	11.93	8.64	79.36	37.69	63.49	7.54	71.03	60.00	YES	
22	PROGRAMM	A2508.3	71.26	88.13	79.55	57.58	39.85	11.93	8.64	75.52	37.69	60.41	7.54	67.95	60.00	YES	
23	ING	A2508.4	68.68	89.60	79.55	57.58	39.57	11.93	8.64	75.17	37.69	60.14	7.54	67.68	60.00	YES	
24	THROUGH	A2508.5	58.82	92.55	79.55	57.58	37.84	11.93	8.64	73.01	37.69	58.41	7.54	65.95	60.00	YES	
25	JAVA A2508	A2508.6		87.68	79.55	57.58	43.84	11.93	8.64	80.51	37.69	64.41	7.54	71.95	60.00	YES	
26	POWER	A2218.1	71.38	57.14	94.70	50.76	32.13	14.20	7.61	67.43	44.27	53.95	8.85	62.80	60.00	YES	
27	SYSTEM	A2218.2	95.74	41.62	94.70	50.76	34.34	14.20	7.61	70.20	44.27	56.16	8.85	65.01	60.00	YES	
28	DISTRIBUTI	A2218.3		65.51	94.70	50.76	32.76	14.20	7.61	68.22	44.27	54.57	8.85	63.43	60.00	YES	
29	ON	A2218.4		64.71	94.70	50.76	32.36	14.20	7.61	67.72	44.27	54.17	8.85	63.03	60.00	YES	
30	A2218	A2218.5		65.35	94.70	50.76	32.67	14.20	7.61	68.11	44.27	54.49	8.85	63.35	60.00	YES	
V SEMESTER - LABORATORY COURSES																	
S. No	Course Name & Code	CO#								CIE	SEE		80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
31	ELECTRICAL	A2219.1								99.24	99.24	100.00	79.39	20.00	99.39	60.00	YES
32	MEASUREM	A2219.2								99.24	99.24	100.00	79.39	20.00	99.39	60.00	YES
33	ENTS LAB	A2219.3								99.24	99.24	100.00	79.39	20.00	99.39	60.00	YES
34	A2219	A2219.4								99.24	99.24	100.00	79.39	20.00	99.39	60.00	YES
35	ELECTRONI	A2423.1								95.52	95.52	97.76	76.42	19.55	95.97	60.00	YES
36	C CIRCUITS	A2423.2								95.52	95.52	97.76	76.42	19.55	95.97	60.00	YES

37	& INTEGRATED CIRCUITS LAB A2423	A2423.3							95.52	95.52	97.76	76.42	19.55	95.97	60.00	YES
38		A2423.4							95.52	95.52	97.76	76.42	19.55	95.97	60.00	YES
39		A2423.5							95.52	95.52	97.76	76.42	19.55	95.97	60.00	YES
VI SEMESTER - THEORY COURSES																
S. No	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
40	PROFESSIONAL ETHICS AND INTELLECTUAL PROPERTY RIGHTS A2015	A2015.1	60.19		96.97	59.09	30.10	14.54	8.86	66.88	69.70	53.50	13.94	67.44	60.00	YES
41		A2015.2	73.04		96.97	59.09	36.52	14.54	8.86	74.91	69.70	59.93	13.94	73.87	60.00	YES
42		A2015.3		84.64	96.97	59.09	42.32	14.54	8.86	82.16	69.70	65.73	13.94	79.67	60.00	YES
43		A2015.4	53.57		96.97	59.09	26.79	14.54	8.86	62.74	69.70	50.19	13.94	64.13	60.00	YES
44		A2015.5	48.29		96.97	59.09	24.14	14.54	8.86	59.44	69.70	47.55	13.94	61.49	60.00	YES
45	POWER ELECTRONICS A2220	A2220.1	69.76		58.33	40.46	34.88	8.75	6.06	62.12	31.82	49.70	6.36	56.06	60.00	NO
46		A2220.2	54.93	82.69	58.33	40.46	34.41	8.75	6.06	61.53	31.82	49.22	6.36	55.59	60.00	NO
47		A2220.3		75.71	58.33	40.46	37.86	8.75	6.06	65.84	31.82	52.67	6.36	59.04	60.00	NO
48		A2220.4	54.92	69.45	58.33	40.46	31.09	8.75	6.06	57.39	31.82	45.91	6.36	52.27	60.00	NO
49		A2220.5		63.16	58.33	40.46	31.58	8.75	6.06	58.00	31.82	46.40	6.36	52.76	60.00	NO
50	COMPUTER METHODS IN POWER SYSTEMS A2221	A2221.1	75.85		81.06	52.67	37.92	12.15	7.90	72.48	60.61	57.98	12.12	70.10	60.00	YES
51		A2221.2	67.67		81.06	52.67	33.84	12.15	7.90	67.37	60.61	53.90	12.12	66.02	60.00	YES
52		A2221.3		65.10	81.06	52.67	32.55	12.15	7.90	65.76	60.61	52.61	12.12	64.73	60.00	YES
53		A2221.4		85.45	81.06	52.67	42.73	12.15	7.90	78.48	60.61	62.78	12.12	74.91	60.00	YES
54		A2221.5		71.61	81.06	52.67	35.81	12.15	7.90	69.83	60.61	55.86	12.12	67.99	60.00	YES
55	MICRO PROCESSORS AND INTERFACING A2419	A2419.1	89.93	80.52	97.73	70.45	42.61	14.65	10.56	84.80	58.33	67.84	11.67	79.51	60.00	YES
56		A2419.2		86.15	97.73	70.45	43.08	14.65	10.56	85.38	58.33	68.30	11.67	79.97	60.00	YES
57		A2419.3	70.46		97.73	70.45	35.23	14.65	10.56	75.57	58.33	60.46	11.67	72.12	60.00	YES
58		A2419.4		90.46	97.73	70.45	45.23	14.65	10.56	88.07	58.33	70.46	11.67	82.12	60.00	YES
59		A2419.5		85.00	97.73	70.45	42.50	14.65	10.56	84.66	58.33	67.73	11.67	79.39	60.00	YES
60	POWER SYSTEM OPERATION AND	A2222.1	84.55	84.43	93.18	60.00	42.25	13.97	9	81.53	78.03	65.22	15.61	80.83	60.00	YES
61		A2222.2	94.34	81.38	93.18	60.00	43.93	13.97	9	83.63	78.03	66.91	15.61	82.51	60.00	YES
62		A2222.3		88.57	93.18	60.00	44.29	13.97	9	84.08	78.03	67.26	15.61	82.87	60.00	YES
63		A2222.4	86.59	89.41	93.18	60.00	44.00	13.97	9	83.72	78.03	66.98	15.61	82.58	60.00	YES

64	CONTROL A2222	A2222.5		97.71	93.18	60.00	48.85	13.97	9	89.79	78.03	71.83	15.61	87.44	60.00	YES
65	VLSI DESIGN A2426	A2426.1	59.63	86.49	66.67	76.19	36.53	10	11.42	72.45	60.00	57.96	12.00	69.96	60.00	YES
66		A2426.2	53.15		66.67	76.19	26.58	10	11.42	60.01	60.00	48.01	12.00	60.01	60.00	YES
67		A2426.3		100.0	66.67	76.19	50.00	10	11.42	89.29	60.00	71.43	12.00	83.43	60.00	YES
68		A2426.4	76.92	77.76	66.67	76.19	38.67	10	11.42	75.12	60.00	60.10	12.00	72.10	60.00	YES
69		A2426.5		80.17	66.67	76.19	40.08	10	11.42	76.89	60.00	61.51	12.00	73.51	60.00	YES
70	DATABASE MANAGEMENT SYSTEMS A2514	A2514.1	57.99		96.40	54.13	29.00	14.45	8.11	64.47	32.11	51.58	6.42	58.00	60.00	NO
71		A2514.2	50.10		96.40	54.13	25.05	14.45	8.11	59.53	32.11	47.63	6.42	54.05	60.00	NO
72		A2514.3		79.82	96.40	54.13	39.91	14.45	8.11	78.11	32.11	62.49	6.42	68.91	60.00	YES
73		A2514.4		59.26	96.40	54.13	29.63	14.45	8.11	65.26	32.11	52.21	6.42	58.63	60.00	NO
74		A2514.5		77.14	96.40	54.13	38.57	14.45	8.11	76.44	32.11	61.15	6.42	67.57	60.00	YES
VI SEMESTER - LABORATORY COURSES																
S. No	Course Name & Code	CO#								CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
75	POWER ELECTRONICS AND SIMULATION LAB A2223	A2223.1								95.45	98.48	76.36	19.70	96.06	60.00	YES
76		A2223.2								95.45	98.48	76.36	19.70	96.06	60.00	YES
77		A2223.3								95.45	98.48	76.36	19.70	96.06	60.00	YES
78		A2223.4								95.45	98.48	76.36	19.70	96.06	60.00	YES
79	MICRO PROCESSORS AND INTERFACING LAB A2424	A2424.1								100.00	100.00	80.00	20.00	100.00	60.00	YES
80		A2424.2								100.00	100.00	80.00	20.00	100.00	60.00	YES
81		A2424.3								100.00	100.00	80.00	20.00	100.00	60.00	YES
82		A2424.4								100.00	100.00	80.00	20.00	100.00	60.00	YES

CO Attainments of Fourth Year courses through DA (CIE and SEE)

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH DA (SEE & CIE) FOR 2014-2018 BATCH																
S. No	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
VII SEMESTER - THEORY COURSES																
1	HIGH VOLTAGE ENGINEERING A2224	A2224.1		85.25	92.31	39.53	42.63	13.85	5.93	78.00	56.59	62.40	11.32	73.72	60.00	YES
2		A2224.2	96.97		92.31	39.53	48.49	13.85	5.93	85.33	56.59	68.26	11.32	79.58	60.00	YES
3		A2224.3	94.72	35.14	92.31	39.53	32.47	13.85	5.93	65.30	56.59	52.24	11.32	63.56	60.00	YES
4		A2224.4		73.92	92.31	39.53	36.96	13.85	5.93	70.92	56.59	56.74	11.32	68.05	60.00	YES
5		A2224.5		91.26	92.31	39.53	45.63	13.85	5.93	81.75	56.59	65.40	11.32	76.72	60.00	YES
6	POWER SYSTEM SWITCHGEAR AND PROTECTION A2225	A2225.1	77.25		94.66	35.16	38.62	14.20	5.27	72.62	60.47	58.10	12.09	70.19	60.00	YES
7		A2225.2	89.77		94.66	35.16	44.88	14.20	5.27	80.44	60.47	64.36	12.09	76.45	60.00	YES
8		A2225.3		89.73	94.66	35.16	44.86	14.20	5.27	80.42	60.47	64.33	12.09	76.43	60.00	YES
9		A2225.4		87.30	94.66	35.16	43.65	14.20	5.27	78.90	60.47	63.12	12.09	75.21	60.00	YES
10		A2225.5		95.52	94.66	35.16	47.76	14.20	5.27	84.04	60.47	67.23	12.09	79.32	60.00	YES
11	UTILIZATION OF ELECTRICAL ENERGY A2226	A2226.1	78.57		79.39	51.54	39.29	11.91	7.73	73.66	50.00	58.92	10.00	68.92	60.00	YES
12		A2226.2	69.56	73.08	79.39	51.54	35.66	11.91	7.73	69.12	50.00	55.30	10.00	65.30	60.00	YES
13		A2226.3	73.14		79.39	51.54	36.57	11.91	7.73	70.26	50.00	56.21	10.00	66.21	60.00	YES
14		A2226.4	53.07	80.06	79.39	51.54	33.28	11.91	7.73	66.15	50.00	52.92	10.00	62.92	60.00	YES
15		A2226.5		76.59	79.39	51.54	38.30	11.91	7.73	72.42	50.00	57.93	10.00	67.93	60.00	YES
16	POWER SEMICONDUCTOR DRIVES A2227	A2227.1	42.21		61.54	66.15	21.10	9.23	9.92	50.32	51.54	40.26	10.31	50.57	60.00	NO
17		A2227.2	45.41		61.54	66.15	22.71	9.23	9.92	52.32	51.54	41.86	10.31	52.17	60.00	NO
18		A2227.3		64.86	61.54	66.15	32.43	9.23	9.92	64.48	51.54	51.58	10.31	61.89	60.00	YES
19		A2227.4		74.41	61.54	66.15	37.20	9.23	9.92	70.45	51.54	56.36	10.31	66.67	60.00	YES
20		A2227.5		63.49	61.54	66.15	31.74	9.23	9.92	63.62	51.54	50.90	10.31	61.20	60.00	YES
21		A2017.1	92.30		99.23	56.92	46.15	14.88	8.54	86.97	86.82	69.58	17.36	86.94	60.00	YES

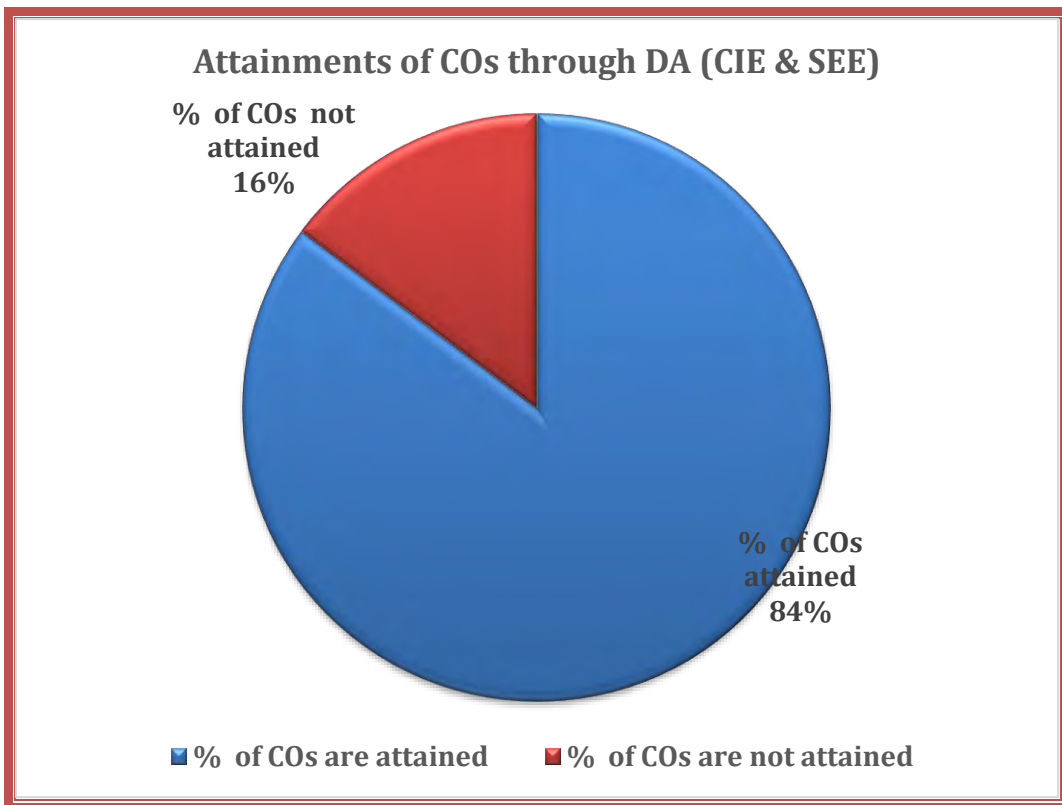
22	ENTREPRENEURSHIP A2017	A2017.2	94.96		99.23	56.92	47.48	14.88	8.54	88.63	86.82	70.90	17.36	88.27	60.00	YES	
23		A2017.3		96.88	99.23	56.92	48.44	14.88	8.54	89.83	86.82	71.86	17.36	89.22	60.00	YES	
24		A2017.4		96.42	99.23	56.92	48.21	14.88	8.54	89.54	86.82	71.63	17.36	89.00	60.00	YES	
25		A2017.5		95.72	99.23	56.92	47.86	14.88	8.54	89.11	86.82	71.28	17.36	88.65	60.00	YES	
26	RENEWABLE ENERGY SOURCES A2234	A2234.1	56.25	82.91	63.08	70.31	34.79	9.46	10.55	68.50	62.02	54.80	12.40	67.20	60.00	YES	
27		A2234.2	63.58	73.07	63.08	70.31	34.16	9.46	10.55	67.71	62.02	54.17	12.40	66.57	60.00	YES	
28		A2234.3	66.20		63.08	70.31	33.10	9.46	10.55	66.39	62.02	53.11	12.40	65.51	60.00	YES	
29		A2234.4	67.80		63.08	70.31	33.90	9.46	10.55	67.39	62.02	53.91	12.40	66.31	60.00	YES	
30		A2234.5		70.04	63.08	70.31	35.02	9.46	10.55	68.78	62.02	55.03	12.40	67.43	60.00	YES	
VII SEMESTER - LABORATORY COURSES & MINI PROJECT																	
S. No	Course Name & Code	CO#									CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
31	HIGH VOLTAGE ENGINEERING LAB A2228	A2228.1									100.00	100.00	80.00	20.00	100.00	60.00	YES
32		A2228.2									100.00	100.00	80.00	20.00	100.00	60.00	YES
33		A2228.3									100.00	100.00	80.00	20.00	100.00	60.00	YES
34		A2228.4									100.00	100.00	80.00	20.00	100.00	60.00	YES
35		A2228.5									100.00	100.00	80.00	20.00	100.00	60.00	YES
36	POWER SEMICONDUCTOR DRIVES LAB A2229	A2229.1									100.00	100.00	80.00	20.00	100.00	60.00	YES
37		A2229.2									100.00	100.00	80.00	20.00	100.00	60.00	YES
38		A2229.3									100.00	100.00	80.00	20.00	100.00	60.00	YES
39		A2229.4									100.00	100.00	80.00	20.00	100.00	60.00	YES
40	MINI PROJECT A2236	A2236.1									100.00		100.00		100.00	60.00	YES
41		A2236.2									100.00		100.00		100.00	60.00	YES
42		A2236.3									100.00		100.00		100.00	60.00	YES
43		A2236.4									100.00		100.00		100.00	60.00	YES
44		A2236.5									100.00		100.00		100.00	60.00	YES

45		A2236.6								100.00		100.00		100.00	60.00	YES	
VIII SEMESTER - THEORY COURSES																	
S. No	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)	
46	HIGH VOLTAGE DC TRANSMISSION AND FACTS A2237	A2237.1	54.39	79.93	93.85	38.46	33.58	14.08	5.77	66.78	56.92	53.43	11.38	64.81	60.00	YES	
47		A2237.2	58.48		93.85	38.46	29.24	14.08	5.77	61.36	56.92	49.09	11.38	60.47	60.00	YES	
48		A2237.3	58.15	75.61	93.85	38.46	33.44	14.08	5.77	66.61	56.92	53.29	11.38	64.67	60.00	YES	
49		A2237.4		81.34	93.85	38.46	40.67	14.08	5.77	75.65	56.92	60.52	11.38	71.90	60.00	YES	
50	DIGITAL CONTROL SYSTEMS A2243	A2243.1	84.64		84.62	56.92	42.32	12.69	8.54	79.44	80.00	63.55	16.00	79.55	60.00	YES	
51		A2243.2	65.56		84.62	56.92	32.78	12.69	8.54	67.51	80.00	54.01	16.00	70.01	60.00	YES	
52		A2243.3		54.16	84.62	56.92	27.08	12.69	8.54	60.39	80.00	48.31	16.00	64.31	60.00	YES	
53		A2243.4		58.75	84.62	56.92	29.38	12.69	8.54	63.26	80.00	50.61	16.00	66.61	60.00	YES	
54	EXTRA HIGH VOLTAGE AC TRANSMISSION A2246	A2246.1	72.92		49.28	73.91	36.46	7.39	11.09	68.67	56.52	54.94	11.30	66.24	60.00	YES	
55		A2246.2	57.40	44.76	49.28	73.91	25.54	7.39	11.09	55.02	56.52	44.02	11.30	55.32	60.00	NO	
56		A2246.3	64.20	39.60	49.28	73.91	25.95	7.39	11.09	55.54	56.52	44.43	11.30	55.73	60.00	NO	
57		A2246.4		84.62	49.28	73.91	42.31	7.39	11.09	75.99	56.52	60.79	11.30	72.09	60.00	YES	
58	RELIABILITY ENGINEERING A2249	A2249.1	64.64		73.77	42.62	32.32	11.07	6.39	62.22	77.05	49.78	15.41	65.19	60.00	YES	
59		A2249.2	70.94		73.77	42.62	35.47	11.07	6.39	66.16	77.05	52.93	15.41	68.34	60.00	YES	
60		A2249.3		82.61	73.77	42.62	41.31	11.07	6.39	73.46	77.05	58.77	15.41	74.18	60.00	YES	
61		A2249.4		62.34	73.77	42.62	31.17	11.07	6.39	60.79	77.05	48.63	15.41	64.04	60.00	YES	
62		A2249.5		85.41	73.77	42.62	42.71	11.07	6.39	75.21	77.05	60.17	15.41	75.58	60.00	YES	
VIII SEMESTER - LABORATORY COURSE, TECHNICAL SEMINAR, COMPREHENSIVE VIVA AND PROJECT WORK																	
S. No	Course Name & Code	CO#									CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)

63	POWER SYSTEMS AND SIMULATION LAB A2238	A2238.1		100.0	100.00	80.00	20.00	100.00	60.00	YES
64		A2238.2		100.0	100.00	80.00	20.00	100.00	60.00	YES
65		A2238.3		100.0	100.00	80.00	20.00	100.00	60.00	YES
66		A2238.4		100.0	100.00	80.00	20.00	100.00	60.00	YES
67		A2238.5		100.0	100.00	80.00	20.00	100.00	60.00	YES
68	TECHNICAL SEMINAR A2251	A2251.1		100.0		100.0		100.00	60.00	YES
69		A2251.2		100.0		100.0		100.00	60.00	YES
70		A2251.3		100.0		100.0		100.00	60.00	YES
71		A2251.4		100.0		100.0		100.00	60.00	YES
72		A2251.5		100.0		100.0		100.00	60.00	YES
73	COMPREHENSIVE VIVA A2252	A2252.1			100.00		100.00	100.00	60.00	YES
74		A2252.2			100.00		100.00	100.00	60.00	YES
75		A2252.3			100.00		100.00	100.00	60.00	YES
76		A2252.4			100.00		100.00	100.00	60.00	YES
77		A2252.5			100.00		100.00	100.00	60.00	YES
78	PROJECT WORK A2253	A2253.1		100.0	100.00	100.00	20.00	120.00	60.00	YES
79		A2253.2		100.0	100.00	100.00	20.00	120.00	60.00	YES
80		A2253.3		100.0	100.00	100.00	20.00	120.00	60.00	YES
81		A2253.4		100.0	100.00	100.00	20.00	120.00	60.00	YES
82		A2253.5		100.0	100.00	100.00	20.00	120.00	60.00	YES
83		A2253.6		100.0	100.00	100.00	20.00	120.00	60.00	YES

Summary of CO attainments through DA (CIE & SEE):

S. No	Particulars of CO	CO Attainment Details
1.	Total No. of COs in the program	328
2.	No. of COs attained	276
3.	No. of COs not attained	52
4.	Percent of COs attained	84%
5.	Percent of COs not attained	16%



Summary of CO attainments through DA (CIE & SEE)

CO Attainments of First Year courses through IDA (CES)

ATTAINMENT CALCULATIONS OF COs FIRST YEAR COURSES THROUGH IDA (COURSE END SURVEY)					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
I SEMESTER - THEORY COURSES					
1	MATHEMATICS - I A201	A2001.1	87.55	60.00	YES
2		A2001.2	84.69	60.00	YES
3		A2001.3	85.31	60.00	YES
4		A2001.4	86.12	60.00	YES
5		A201.5	86.53	60.00	YES
6	TECHNICAL ENGLISH A2005	A2005.1	79.59	60.00	YES
7		A2005.2	80.41	60.00	YES
8		A2005.3	80.61	60.00	YES
9		A2005.4	81.84	60.00	YES
10		A2005.5	80.41	60.00	YES
11	PROBABILITY THEORY AND COMPUTATIONAL METHODS A2004	A2004.1	85.10	60.00	YES
12		A2004.2	81.84	60.00	YES
13		A2004.3	83.06	60.00	YES
14		A2004.4	84.29	60.00	YES
15		A2004.5	81.22	60.00	YES
16	BASIC ELECTRICAL ENGINEERING A2201	A2201.1	79.39	60.00	YES
17		A2201.2	78.98	60.00	YES
18		A2201.3	76.53	60.00	YES
19		A2201.4	80.20	60.00	YES
21	COMPUTER PROGRAMMING A2501	A2501.1	76.94	60.00	YES
22		A2501.2	82.86	60.00	YES
23		A2501.3	80.41	60.00	YES
24		A2501.4	79.39	60.00	YES
25		A2501.5	82.86	60.00	YES
26		A2501.6	75.10	60.00	YES
I SEMESTER - LABORATORY COURSES					

S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
29	COMPUTER PROGRAMMING LAB A2502	A2502.1	84.49	60.00	YES
30		A2502.2	84.29	60.00	YES
31		A2502.3	85.10	60.00	YES
32		A2502.4	86.33	60.00	YES
33		A2502.5	85.51	60.00	YES
34		A2502.6	85.71	60.00	YES
35	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB A2009	A2009.1	84.49	60.00	YES
36		A2009.2	82.45	60.00	YES
37		A2009.3	85.92	60.00	YES
38		A2009.4	83.67	60.00	YES
39		A2009.5	86.12	60.00	YES
40	COMPUTER AIDED ENGINEERING DRAWING LAB A2306	A2306.1	87.76	60.00	YES
41		A2306.2	87.76	60.00	YES
42		A2306.3	86.94	60.00	YES
43		A2306.4	88.16	60.00	YES
44		A2306.5	87.76	60.00	YES
II SEMESTER - THEORY COURSES					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
45	MATHEMATICS-II A2010	A2010.1	80.20	60.00	YES
46		A2010.2	82.45	60.00	YES
47		A2010.3	83.67	60.00	YES
48		A2010.4	85.10	60.00	YES
49		A2010.5	85.10	60.00	YES
50	DATA STRUCTURES THROUGH C A2503	A2503.1	86.33	60.00	YES
51		A2503.2	88.16	60.00	YES
52		A2503.3	88.98	60.00	YES
53		A2503.4	88.78	60.00	YES
54		A2503.5	89.39	60.00	YES
55	ENGINEERING PHYSICS A2002	A2002.1	90.82	60.00	YES
56		A2002.2	90.00	60.00	YES
57		A2002.3	89.18	60.00	YES
58		A2002.4	89.59	60.00	YES
59		A2002.5	87.35	60.00	YES
60	ENGINEERING CHEMISTRY A2003	A2003.1	79.18	60.00	YES
61		A2003.2	74.90	60.00	YES
62		A2003.3	78.57	60.00	YES
63		A2003.4	76.94	60.00	YES

64		A2003.5	78.78	60.00	YES
65	ELECTRONIC DEVICES A2401	A2401.1	80.82	60.00	YES
66		A2401.2	81.63	60.00	YES
67		A2401.3	80.82	60.00	YES
68		A2401.4	81.63	60.00	YES
II SEMESTER - LABORATORY COURSES					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
69	ENGINEERING PHYSICS AND ENGINEERING CHEMISTRY LAB A2008	A2008.1	84.90	60.00	YES
70		A2008.2	87.14	60.00	YES
71		A2008.3	89.80	60.00	YES
72		A2008.4	89.39	60.00	YES
73		A2008.5	88.78	60.00	YES
74		A2008.6	88.57	60.00	YES
75	DATA STRUCTURES THROUGH C LAB A2504	A2504.1	89.39	60.00	YES
76		A2504.2	88.57	60.00	YES
77		A2504.3	87.55	60.00	YES
78		A2504.4	88.37	60.00	YES
79		A2504.5	87.35	60.00	YES
80	ELECTRONIC DEVICES LAB A2404	A2404.1	89.80	60.00	YES
81		A2404.2	89.59	60.00	YES
82		A2404.3	88.16	60.00	YES
83		A2404.4	86.73	60.00	YES
84		A2404.5	86.12	60.00	YES

CO Attainments of Second Year courses through IDA (CES)

ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH IDA FOR 2014-2018 BATCH					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
III SEMESTER - THEORY COURSES					
1	MATHEMATICS-III A2010	A2010.1	87.17	60.00	YES
2		A2010.2	83.77	60.00	YES
3		A2010.3	85.47	60.00	YES
4		A2010.4	85.09	60.00	YES
5		A2010.5	85.66	60.00	YES
6	NETWORK ANALYSIS A2202	A2202.1	80.75	60.00	YES
7		A2202.2	80.00	60.00	YES
8		A2202.3	83.21	60.00	YES
9		A2202.4	85.85	60.00	YES
10		A2202.5	87.36	60.00	YES

11	ELECTRICAL MACHINES-I A2203	A2202.6	86.04	60.00	YES
12		A2203.1	83.33	60.00	YES
13		A2203.2	84.53	60.00	YES
14		A2203.3	83.40	60.00	YES
15		A2203.4	85.47	60.00	YES
16		A2203.5	85.28	60.00	YES
17	ELECTRO MAGNETIC FIELDS A2204	A2204.1	86.79	60.00	YES
18		A2204.2	83.77	60.00	YES
19		A2204.3	83.58	60.00	YES
20		A2204.4	88.68	60.00	YES
21	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS A2012	A2012.1	82.45	60.00	YES
22		A2012.2	81.13	60.00	YES
23		A2012.3	78.30	60.00	YES
24		A2012.4	80.94	60.00	YES
25		A2012.5	79.25	60.00	YES
26	DIGITAL LOGIC DESIGN A2406	A2406.1	83.77	60.00	YES
27		A2406.2	83.21	60.00	YES
28		A2406.3	84.53	60.00	YES
29		A2406.4	85.28	60.00	YES
30		A2406.5	86.04	60.00	YES

III SEMESTER - LABORATORY COURSES

S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
31	ELECTRIC CIRCUITS AND SIMULATION LAB A2205	A2205.1	86.04	60.00	YES
32		A2205.2	88.68	60.00	YES
33		A2205.3	90.38	60.00	YES
34		A2205.4	90.38	60.00	YES
35		A2205.4	89.43	60.00	YES
36		A2205.6	89.43	60.00	YES
37	DC MACHINES LAB A2206	A2206.1	90.19	60.00	YES
38		A2206.2	89.43	60.00	YES
39		A2206.3	88.49	60.00	YES
40		A2206.4	89.25	60.00	YES

IV SEMESTER - THEORY COURSES

S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
41	SIGNALS AND SYSTEMS A2407	A2407.1	83.75	60.00	YES
42		A2407.2	82.68	60.00	YES
43		A2407.3	82.86	60.00	YES
44		A2407.4	84.64	60.00	YES
45		A2407.5	83.39	60.00	YES
46	ELECTRONIC CIRCUITS A2415	A2415.1	79.46	60.00	YES
47		A2415.2	78.39	60.00	YES
48		A2415.3	81.07	60.00	YES
49		A2415.4	79.11	60.00	YES
50		A2415.5	80.89	60.00	YES

51	POWER SYSTEM GENERATION A2207	A2207.1	84.64	60.00	YES
52		A2207.2	85.71	60.00	YES
53		A2207.3	82.86	60.00	YES
54		A2207.4	85.54	60.00	YES
55		A2207.5	83.57	60.00	YES
56	ELECTRICAL MACHINES - II A2208	A2208.1	82.14	60.00	YES
57		A2208.2	81.79	60.00	YES
58		A2208.3	83.04	60.00	YES
59		A2208.4	84.46	60.00	YES
60	CONTROL SYSTEMS A2209	A2209.1	82.14	60.00	YES
61		A2209.2	84.11	60.00	YES
62		A2209.3	82.32	60.00	YES
63		A2209.4	83.57	60.00	YES
64		A2209.5	86.25	60.00	YES
65	ENVIRONMENTAL SCIENCE A2011	A2011.1	83.04	60.00	YES
66		A2011.2	85.00	60.00	YES
67		A2011.3	85.18	60.00	YES
68		A2011.4	83.39	60.00	YES
69		A2011.5	78.75	60.00	YES
IV SEMESTER - LABORATORY COURSES					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
70	AC MACHINES LAB A2210	A2210.1	87.86	60.00	YES
71		A2210.2	89.46	60.00	YES
72		A2210.3	87.50	60.00	YES
73		A2210.4	87.86	60.00	YES
74		A2210.5	86.96	60.00	YES
75	CONTROL SYSTEMS AND SIMULATION LAB A2211	A2211.1	88.93	60.00	YES
76		A2211.2	91.07	60.00	YES
77		A2211.3	92.50	60.00	YES
78		A2211.4	92.50	60.00	YES
79		A2211.5	91.79	60.00	YES

CO Attainments of Third Year courses through IDA (CES)

ATTAINMENT CALCULATIONS OF COs OF THIRD YEAR COURSES THROUGH IDA FOR 2014-2018 BATCH					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
V SEMESTER - THEORY COURSES					
1	ELECTRICAL MEASUREMENTS & INSTRUMENTATION A2216	A2216.1	84.68	60.00	YES
2		A2216.2	82.13	60.00	YES
3		A2216.3	81.06	60.00	YES
4		A2216.4	84.68	60.00	YES

5	INTEGRATED CIRCUITS APPLICATIONS A2418	A2216.5	75.74	60.00	YES
6		A2418.1	86.81	60.00	YES
7		A2418.2	81.70	60.00	YES
8		A2418.3	85.53	60.00	YES
9		A2418.4	86.38	60.00	YES
10	COMPUTER ARCHITECTURE AND ORGANIZATION A2510	A2510.1	78.30	60.00	YES
11		A2510.2	73.62	60.00	YES
12		A2510.3	77.66	60.00	YES
13		A2510.4	75.96	60.00	YES
14		A2510.5	77.87	60.00	YES
15	POWER SYSTEM TRANSMISSION A2217	A2217.1	80.00	60.00	YES
16		A2217.2	80.85	60.00	YES
17		A2217.3	81.06	60.00	YES
18		A2217.4	83.19	60.00	YES
19		A2217.5	83.19	60.00	YES
20	OBJECT ORIENTED PROGRAMMING THROUGH JAVA A2508	A2508.1	78.09	60.00	YES
21		A2508.2	77.45	60.00	YES
22		A2508.3	80.85	60.00	YES
23		A2508.4	77.02	60.00	YES
24		A2508.5	76.17	60.00	YES
25		A2508.6	80.43	60.00	YES
26	POWER SYSTEM DISTRIBUTION A2218	A2218.1	77.66	60.00	YES
27		A2218.2	76.60	60.00	YES
28		A2218.3	74.68	60.00	YES
29		A2218.4	79.15	60.00	YES
30		A2218.5	75.11	60.00	YES
V SEMESTER - LABORATORY COURSES					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
31	ELECTRICAL MEASUREMENTS LAB A2219	A2219.1	85.53	60.00	YES
32		A2219.2	85.32	60.00	YES
33		A2219.3	86.17	60.00	YES
34		A2219.4	87.45	60.00	YES
35	ELECTRONIC CIRCUITS & INTEGRATED CIRCUITS LAB A2423	A2423.1	86.60	60.00	YES
36		A2423.2	86.81	60.00	YES
37		A2423.3	85.53	60.00	YES
38		A2423.4	83.40	60.00	YES
39		A2423.5	87.02	60.00	YES
VI SEMESTER - THEORY COURSES					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
40	PROFESSIONAL ETHICS AND INTELLECTUAL PRPROPERTY RIGHTS A2015	A2015.1	84.67	60.00	YES
41		A2015.2	82.44	60.00	YES
42		A2015.3	83.78	60.00	YES
43		A2015.4	81.78	60.00	YES
44		A2015.5	86.22	60.00	YES

45	POWER ELECTRONICS A2220	A2220.1	76.67	60.00	YES
46		A2220.2	74.22	60.00	YES
47		A2220.3	75.56	60.00	YES
48		A2220.4	75.56	60.00	YES
49		A2220.5	78.22	60.00	YES
50	COMPUTER METHODS IN POWER SYSTEMS A2221	A2221.1	78.44	60.00	YES
51		A2221.2	80.89	60.00	YES
52		A2221.3	82.22	60.00	YES
53		A2221.4	83.78	60.00	YES
54		A2221.5	83.78	60.00	YES
55	MICRO PROCESSORS AND INTERFACING A2419	A2419.1	85.11	60.00	YES
56		A2419.2	87.11	60.00	YES
57		A2419.3	88.00	60.00	YES
58		A2419.4	87.78	60.00	YES
59		A2419.5	88.44	60.00	YES
60	POWER SYSTEM OPERATION AND CONTROL A2222	A2222.1	90.00	60.00	YES
61		A2222.2	89.11	60.00	YES
62		A2222.3	88.22	60.00	YES
63		A2222.4	90.44	60.00	YES
64		A2222.5	90.44	60.00	YES
65	VLSI DESIGN A2426	A2426.1	77.78	60.00	YES
66		A2426.2	81.11	60.00	YES
67		A2426.3	79.56	60.00	YES
68		A2426.4	81.11	60.00	YES
69		A2426.5	79.56	60.00	YES
70	DATABASE MANAGEMENT SYSTEMS A2514	A2514.1	77.33	60.00	YES
71		A2514.2	80.89	60.00	YES
72		A2514.3	80.22	60.00	YES
73		A2514.4	77.33	60.00	YES
74		A2514.5	79.56	60.00	YES
VI SEMESTER - LABORATORY COURSES					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
75	POWER ELECTRONICS AND SIMULATION LAB A2223	A2223.1	87.56	60.00	YES
76		A2223.2	88.22	60.00	YES
77		A2223.3	90.00	60.00	YES
78		A2223.4	90.22	60.00	YES
79	MICRO PROCESSORS AND INTERFACING LAB A2424	A2424.1	88.44	60.00	YES
80		A2424.2	88.44	60.00	YES
81		A2424.3	88.22	60.00	YES
82		A2424.4	87.56	60.00	YES

CO Attainments of Fourth Year courses through IDA (CES)

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH IDA FOR 2014-2018 BATCH					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
VII SEMESTER - THEORY COURSES					
1	HIGH VOLTAGE ENGINEERING A2224	A2224.1	78.95	60.00	YES
2		A2224.2	76.21	60.00	YES
3		A2224.3	76.00	60.00	YES
4		A2224.4	76.84	60.00	YES
5		A2224.5	77.68	60.00	YES
6	POWER SYSTEM SWITCHGEAR AND PROTECTION A2225	A2225.1	81.89	60.00	YES
7		A2225.2	82.53	60.00	YES
8		A2225.3	80.63	60.00	YES
9		A2225.4	82.53	60.00	YES
10		A2225.5	79.37	60.00	YES
11	UTILIZATION OF ELECTRICAL ENERGY A2226	A2226.1	82.32	60.00	YES
12		A2226.2	78.53	60.00	YES
13		A2226.3	79.37	60.00	YES
14		A2226.4	79.79	60.00	YES
15		A2226.5	82.11	60.00	YES
16	POWER SEMICONDUCTOR DRIVES A2227	A2227.1	80.00	60.00	YES
17		A2227.2	81.68	60.00	YES
18		A2227.3	83.16	60.00	YES
19		A2227.4	83.16	60.00	YES
20		A2227.5	81.47	60.00	YES
21	ENTREPRENEURSHIP A2017	A2017.1	81.89	60.00	YES
22		A2017.2	84.00	60.00	YES
23		A2017.3	83.16	60.00	YES
24		A2017.4	83.16	60.00	YES
25		A2017.5	84.00	60.00	YES
26	RENEWABLE ENERGY SOURCES A2234	A2234.1	81.68	60.00	YES
27		A2234.2	84.00	60.00	YES
28		A2234.3	82.11	60.00	YES
29		A2234.4	82.74	60.00	YES
30		A2234.5	79.58	60.00	YES
VII SEMESTER - LABORATORY COURSES & MINI PROJECT					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)

31	HIGH VOLTAGE ENGINEERING LAB A2228	A2228.1	81.68	60.00	YES
32		A2228.2	82.74	60.00	YES
33		A2228.3	81.68	60.00	YES
34		A2228.4	84.42	60.00	YES
35		A2228.5	84.00	60.00	YES
36	POWER SEMICONDUCTOR DRIVES LAB A2229	A2229.1	83.58	60.00	YES
37		A2229.2	81.89	60.00	YES
38		A2229.3	82.32	60.00	YES
39		A2229.4	84.21	60.00	YES
40	MINI PROJECT A2236	A2236.1	86.53	60.00	YES
41		A2236.2	82.74	60.00	YES
42		A2236.3	86.11	60.00	YES
43		A2236.4	84.21	60.00	YES
44		A2236.5	84.84	60.00	YES
45		A2236.6	81.89	60.00	YES
VIII SEMESTER - THEORY COURSES					
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
46	HIGH VOLTAGE DC TRANSMISSION AND FACTS A2237	A2237.1	80.92	60.00	YES
47		A2237.2	83.68	60.00	YES
48		A2237.3	81.38	60.00	YES
49		A2237.4	84.83	60.00	YES
50	DIGITAL CONTROL SYSTEMS A2243	A2243.1	81.61	60.00	YES
51		A2243.2	80.46	60.00	YES
52		A2243.3	80.23	60.00	YES
53		A2243.4	80.69	60.00	YES
54	EXTRA HIGH VOLTAGE AC TRANSMISSION A2246	A2246.1	82.07	60.00	YES
55		A2246.2	80.92	60.00	YES
56		A2246.3	79.77	60.00	YES
57		A2246.4	82.53	60.00	YES
58	RELIABILTY ENGINEERING A2249	A2249.1	83.45	60.00	YES
59		A2249.2	83.22	60.00	YES
60		A2249.3	81.84	60.00	YES
61		A2249.4	81.84	60.00	YES
62		A2249.5	78.62	60.00	YES
VIII SEMESTER - LABORATORY COURSE, TECHNICAL SEMINAR, COMPREHENSIVE VIVA AND PROEJCT WORK					

S. No	Course Name & Code	CO#	Total CO AT through IDA in %	Target AT in %	CO Attained (YES/NO)
63	POWER SYSTEMS AND SIMULATION LAB A2238	A2238.1	85.06	60.00	YES
64		A2238.2	87.36	60.00	YES
65		A2238.3	85.98	60.00	YES
66		A2238.4	86.90	60.00	YES
67		A2238.5	87.59	60.00	YES
68	TECHNICAL SEMINAR A2251	A2251.1	86.90	60.00	YES
69		A2251.2	88.28	60.00	YES
70		A2251.3	87.82	60.00	YES
71		A2251.4	86.21	60.00	YES
72		A2251.5	83.91	60.00	YES
73	COMPREHENSIVE VIVA A2252	A2252.1	86.21	60.00	YES
74		A2252.2	88.05	60.00	YES
75		A2252.3	85.75	60.00	YES
76		A2252.4	86.67	60.00	YES
77		A2252.5	90.34	60.00	YES
78	PROJECT WORK A2253	A2253.1	93.10	60.00	YES
79		A2253.2	92.87	60.00	YES
80		A2253.3	93.79	60.00	YES
81		A2253.4	94.48	60.00	YES
82		A2253.5	93.79	60.00	YES
83		A2253.6	88.97	60.00	YES

Summary of CO attainments through IDA (CES):

S. No	Particulars of CO	Co Attainment Details
1.	Total No. of COs in the Program	328
2.	No. of COs are attained	328
3.	No. of COs are not attained	0
4.	% of COs are attained	100
5.	% of COs are not attained	0

CO Attainments of First Year courses through DA and IDA

ATTAINMENT CALCULATIONS OF COs of FIRST YEAR COURSESTHROUGH DA & IDA									
S. No	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
I SEMESTER - THEORY COURSES									
1	MATHEMATICS – I A2001	A2001.1	21.67	87.55	19.51	8.76	28.26	60.00	NO
2		A2001.2	21.67	84.69	19.51	8.47	27.98	60.00	NO
3		A2001.3	62.11	85.31	55.90	8.53	64.43	60.00	YES
4		A2001.4	59.05	86.12	53.14	8.61	61.76	60.00	YES
5		A2001.5	62.08	86.53	55.87	8.65	64.53	60.00	YES
6	TECHNICAL ENGLISH A2005	A2005.1	77.24	79.59	69.52	7.96	77.48	60.00	YES
7		A2005.2	76.33	80.41	68.70	8.04	76.74	60.00	YES
8		A2005.3	50.03	80.61	45.03	8.06	53.09	60.00	NO
9		A2005.4	79.63	81.84	71.67	8.18	79.85	60.00	YES
10		A2005.5	78.52	80.41	70.67	8.04	78.71	60.00	YES
11	PROBABILITY THEORY AND COMPUTATIONAL METHODS A2004	A2004.1	63.05	85.10	56.74	8.51	65.25	60.00	YES
12		A2004.2	52.55	81.84	47.29	8.18	55.48	60.00	NO
13		A2004.3	55.98	83.06	50.38	8.31	58.69	60.00	NO
14		A2004.4	58.48	84.29	52.63	8.43	61.06	60.00	YES
15		A2004.5	52.29	81.22	47.06	8.12	55.18	60.00	NO
16	BASIC ELECTRICAL ENGINEERING A2201	A2201.1	57.96	79.39	52.17	7.94	60.10	60.00	YES
17		A2201.2	62.10	78.98	55.89	7.90	63.79	60.00	YES
18		A2201.3	57.83	76.53	52.04	7.65	59.70	60.00	NO
19		A2201.4	58.34	80.20	52.51	8.02	60.53	60.00	YES
21	COMPUTER PROGRAMMING A2501	A2501.1	59.91	76.94	53.92	7.69	61.62	60.00	YES
22		A2501.2	56.01	82.86	50.41	8.29	58.70	60.00	NO
23		A2501.3	55.45	80.41	49.91	8.04	57.95	60.00	NO
24		A2501.4	63.11	79.39	56.80	7.94	64.74	60.00	YES
25		A2501.5	68.33	82.86	61.50	8.29	69.79	60.00	YES
26		A2501.6	69.33	75.10	62.40	7.51	69.91	60.00	YES
I SEMESTER - LABORATORY COURSES									
29	COMPUTER PROGRAMMING	A2502.1	94.67	84.49	85.21	8.45	93.66	60.00	YES
30		A2502.2	94.67	84.29	85.21	8.43	93.64	60.00	YES

31	NG LAB A2502	A2502.3	94.67	85.10	85.21	8.51	93.72	60.00	YES
32		A2502.4	94.67	86.33	85.21	8.63	93.84	60.00	YES
33		A2502.5	94.67	85.51	85.21	8.55	93.76	60.00	YES
34		A2502.6	94.67	85.71	85.21	8.57	93.78	60.00	YES
35	ENGLISH LANGUAGE COMMUNIC ATION SKILLS LAB A2009	A2009.1	99.29	84.49	89.36	8.45	97.81	60.00	YES
36		A2009.2	99.29	82.45	89.36	8.24	97.61	60.00	YES
37		A2009.3	99.29	85.92	89.36	8.59	97.95	60.00	YES
38		A2009.4	99.29	83.67	89.36	8.37	97.73	60.00	YES
39		A2009.5	99.29	86.12	89.36	8.61	97.98	60.00	YES
40	COMPUTER AIDED ENGINEERIN G DRAWING LAB A2306	A2306.1	98.23	87.76	88.40	8.78	97.18	60.00	YES
41		A2306.2	98.23	87.76	88.40	8.78	97.18	60.00	YES
42		A2306.3	98.23	86.94	88.40	8.69	97.10	60.00	YES
43		A2306.4	98.23	88.16	88.40	8.82	97.22	60.00	YES
44		A2306.5	98.23	87.76	88.40	8.78	97.18	60.00	YES
II SEMESTER - THEORY COURSES									
45	MATHEMATI CS-II A2010	A2010.1	68.75	80.20	61.87	8.02	69.89	60.00	YES
46		A2010.2	64.99	82.45	58.49	8.24	66.73	60.00	YES
47		A2010.3	70.94	83.67	63.84	8.37	72.21	60.00	YES
48		A2010.4	66.80	85.10	60.12	8.51	68.63	60.00	YES
49		A2010.5	63.52	85.10	57.17	8.51	65.68	60.00	YES
50	DATA STRUCTURE S THROUGH C A2503	A2503.1	76.06	86.33	68.46	8.63	77.09	60.00	YES
51		A2503.2	77.23	88.16	69.51	8.82	78.32	60.00	YES
52		A2503.3	75.21	88.98	67.69	8.90	76.58	60.00	YES
53		A2503.4	66.88	88.78	60.19	8.88	69.07	60.00	YES
54		A2503.5	72.39	89.39	65.15	8.94	74.09	60.00	YES
55	ENGINEERIN G PHYSICS A2002	A2002.1	67.03	90.82	60.32	9.08	69.41	60.00	YES
56		A2002.2	64.25	90.00	57.82	9.00	66.82	60.00	YES
57		A2002.3	68.59	89.18	61.73	8.92	70.65	60.00	YES
58		A2002.4	68.51	89.59	61.66	8.96	70.62	60.00	YES
59		A2002.5	75.00	87.35	67.50	8.73	76.23	60.00	YES
60	ENGINEERIN G CHEMISTRY A2003	A2003.1	78.72	79.18	70.85	7.92	78.77	60.00	YES
61		A2003.2	73.59	74.90	66.23	7.49	73.72	60.00	YES
62		A2003.3	78.37	78.57	70.53	7.86	78.39	60.00	YES
63		A2003.4	74.24	76.94	66.81	7.69	74.51	60.00	YES
64		A2003.5	70.96	78.78	63.86	7.88	71.74	60.00	YES
65	ELECTRONI C DEVICES A2401	A2401.1	54.44	80.82	49.00	8.08	57.08	60.00	NO
66		A2401.2	58.94	81.63	53.04	8.16	61.21	60.00	YES
67		A2401.3	61.42	80.82	55.28	8.08	63.36	60.00	YES
68		A2401.4	62.21	81.63	55.99	8.16	64.15	60.00	YES
II SEMESTER - LABORATORY COURSES									
69		A2008.1	100.00	84.90	90.00	8.49	98.49	60.00	YES

70	ENGINEERING PHYSICS AND CHEMISTRY LAB A2008	A2008.2	100.00	87.14	90.00	8.71	98.71	60.00	YES
71		A2008.3	100.00	89.80	90.00	8.98	98.98	60.00	YES
72		A2008.4	100.00	89.39	90.00	8.94	98.94	60.00	YES
73		A2008.5	100.00	88.78	90.00	8.88	98.88	60.00	YES
74		A2008.6	100.00	88.57	90.00	8.86	98.86	60.00	YES
75	DATA STRUCTURES THROUGH C LAB A2504	A2504.1	99.82	89.39	89.84	8.94	98.78	60.00	YES
76		A2504.2	99.82	88.57	89.84	8.86	98.70	60.00	YES
77		A2504.3	99.82	87.55	89.84	8.76	98.60	60.00	YES
78		A2504.4	99.82	88.37	89.84	8.84	98.68	60.00	YES
79		A2504.5	99.82	87.35	89.84	8.73	98.58	60.00	YES
80	ELECTRONIC DEVICES LAB A2404	A2404.1	92.57	89.80	83.31	8.98	92.29	60.00	YES
81		A2404.2	92.57	89.59	83.31	8.96	92.27	60.00	YES
82		A2404.3	92.57	88.16	83.31	8.82	92.13	60.00	YES
83		A2404.4	92.57	86.73	83.31	8.67	91.98	60.00	YES
84		A2404.5	92.57	86.12	83.31	8.61	91.92	60.00	YES

CO Attainments of Second Year courses through DA and IDA

ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH									
S. No	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
III SEMESTER - THEORY COURSES									
1	MATHEMATICS-III A2010	A2010.1	63.76	87.17	57.39	8.72	66.10	60.00	YES
2		A2010.2	58.66	83.77	52.79	8.38	61.17	60.00	YES
3		A2010.3	68.93	85.47	62.04	8.55	70.59	60.00	YES
4		A2010.4	60.15	85.09	54.14	8.51	62.65	60.00	YES
5		A2010.5	61.14	85.66	55.03	8.57	63.59	60.00	YES
6	NETWORK ANALYSIS A2202	A2202.1	52.61	80.75	47.35	8.08	55.42	60.00	NO
7		A2202.2	56.24	80.00	50.61	8.00	58.61	60.00	NO
8		A2202.3	46.02	83.21	41.42	8.32	49.74	60.00	NO
9		A2202.4	62.41	85.85	56.17	8.58	64.76	60.00	YES
10		A2202.5	64.84	87.36	58.36	8.74	67.10	60.00	YES
11		A2202.6	61.45	86.04	55.31	8.60	63.91	60.00	YES
12	ELECTRICAL MACHINES-I A2203	A2203.1	71.34	83.33	64.20	8.33	72.54	60.00	YES
13		A2203.2	73.94	84.53	66.55	8.45	75.00	60.00	YES
14		A2203.3	58.10	83.40	52.29	8.34	60.63	60.00	YES
15		A2203.4	67.50	85.47	60.75	8.55	69.30	60.00	YES
16		A2203.5	63.27	85.28	56.94	8.53	65.47	60.00	YES
17	ELECTRO MAGNETIC FIELDS A2204	A2204.1	68.48	86.79	61.63	8.68	70.31	60.00	YES
18		A2204.2	60.19	83.77	54.17	8.38	62.55	60.00	YES
19		A2204.3	66.70	83.58	60.03	8.36	68.39	60.00	YES
20		A2204.4	61.03	88.68	54.93	8.87	63.80	60.00	YES
21	MANAGERIAL ECONOMICS	A2012.1	56.70	82.45	51.03	8.25	59.27	60.00	NO
22		A2012.2	57.98	81.13	52.18	8.11	60.30	60.00	YES

23	AND FINANCIAL ANALYSIS A2012	A2012.3	45.27	78.30	40.75	7.83	48.58	60.00	NO
24		A2012.4	48.74	80.94	43.86	8.09	51.96	60.00	NO
25		A2012.5	48.12	79.25	43.31	7.92	51.23	60.00	NO
26	DIGITAL LOGIC DESIGN A2406	A2406.1	53.50	83.77	48.15	8.38	56.52	60.00	NO
27		A2406.2	52.17	83.21	46.95	8.32	55.27	60.00	NO
28		A2406.3	62.34	84.53	56.11	8.45	64.56	60.00	YES
29		A2406.4	66.45	85.28	59.80	8.53	68.33	60.00	YES
30		A2406.5	63.11	86.04	56.79	8.60	65.40	60.00	YES
III SEMESTER - LABORATORY COURSES									
S. No	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
31	ELECTRIC CIRCUITS AND SIMULATION LAB A2205	A2205.1	90.28	86.04	81.25	8.60	89.86	60.00	YES
32		A2205.2	90.28	88.68	81.25	8.87	90.12	60.00	YES
33		A2205.3	90.28	90.38	81.25	9.04	90.29	60.00	YES
34		A2205.4	90.28	90.38	81.25	9.04	90.29	60.00	YES
35		A2205.4	90.28	89.43	81.25	8.94	90.20	60.00	YES
36		A2205.6	90.28	89.43	81.25	8.94	90.20	60.00	YES
37	DC MACHINES LAB A2206	A2206.1	97.86	90.19	88.07	9.02	97.09	60.00	YES
38		A2206.2	97.86	89.43	88.07	8.94	97.02	60.00	YES
39		A2206.3	97.86	88.49	88.07	8.85	96.92	60.00	YES
40		A2206.4	97.86	89.25	88.07	8.92	97.00	60.00	YES
IV SEMESTER - THEORY COURSES									
S. No	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
41	SIGNALS AND SYSTEMS A2407	A2407.1	68.48	83.75	61.64	8.38	70.01	60.00	YES
42		A2407.2	69.34	82.68	62.40	8.27	70.67	60.00	YES
43		A2407.3	66.68	82.86	60.02	8.29	68.30	60.00	YES
44		A2407.4	67.28	84.64	60.55	8.46	69.02	60.00	YES
45		A2407.5	66.41	83.39	59.77	8.34	68.11	60.00	YES
46	ELECTRONIC CIRCUITS A2415	A2415.1	55.75	79.46	50.18	7.95	58.12	60.00	NO
47		A2415.2	55.44	78.39	49.90	7.84	57.74	60.00	NO
48		A2415.3	60.42	81.07	54.38	8.11	62.48	60.00	YES
49		A2415.4	49.66	79.11	44.70	7.91	52.61	60.00	NO
50		A2415.5	44.26	80.89	39.83	8.09	47.92	60.00	NO
51	POWER SYSTEM GENERATION A2207	A2207.1	70.72	84.64	63.65	8.46	72.11	60.00	YES
52		A2207.2	70.74	85.71	63.67	8.57	72.24	60.00	YES
53		A2207.3	69.79	82.86	62.81	8.29	71.10	60.00	YES
54		A2207.4	69.63	85.54	62.66	8.55	71.22	60.00	YES
55		A2207.5	63.93	83.57	57.54	8.36	65.90	60.00	YES
56	ELECTRICAL MACHINES - II A2208	A2208.1	62.66	82.14	56.39	8.21	64.61	60.00	YES
57		A2208.2	62.20	81.79	55.98	8.18	64.16	60.00	YES
58		A2208.3	63.81	83.04	57.43	8.30	65.73	60.00	YES
59		A2208.4	57.59	84.46	51.83	8.45	60.28	60.00	YES
60		A2209.1	70.92	82.14	63.83	8.21	72.04	60.00	YES
61	A2209.2	70.41	84.11	63.37	8.41	71.78	60.00	YES	

62	CONTROL SYSTEMS A2209	A2209.3	74.08	82.32	66.67	8.23	74.90	60.00	YES
63		A2209.4	71.18	83.57	64.06	8.36	72.42	60.00	YES
64		A2209.5	62.87	86.25	56.58	8.63	65.21	60.00	YES
65	ENVIRONMENTAL SCIENCE A2011	A2011.1	77.82	83.04	70.04	8.30	78.34	60.00	YES
66		A2011.2	77.84	85.00	70.06	8.50	78.56	60.00	YES
67		A2011.3	76.39	85.18	68.75	8.52	77.27	60.00	YES
68		A2011.4	76.67	83.39	69.00	8.34	77.34	60.00	YES
69		A2011.5	77.04	78.75	69.33	7.88	77.21	60.00	YES
IV SEMESTER - LABORATORY COURSES									
S. No	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
70	AC MACHINES LAB A2210	A2210.1	98.35	87.86	88.52	8.79	97.30	60.00	YES
71		A2210.2	98.35	89.46	88.52	8.95	97.46	60.00	YES
72		A2210.3	98.35	87.50	88.52	8.75	97.27	60.00	YES
73		A2210.4	98.35	87.86	88.52	8.79	97.30	60.00	YES
74		A2210.5	98.35	86.96	88.52	8.70	97.21	60.00	YES
75	CONTROL SYSTEMS AND SIMULATION LAB A2211	A2211.1	95.97	88.93	86.37	8.89	95.27	60.00	YES
76		A2211.2	95.97	91.07	86.37	9.11	95.48	60.00	YES
77		A2211.3	95.97	92.50	86.37	9.25	95.62	60.00	YES
78		A2211.4	95.97	92.50	86.37	9.25	95.62	60.00	YES
79		A2211.5	95.97	91.79	86.37	9.18	95.55	60.00	YES

CO Attainments of Third Year courses through DA and IDA

ATTAINMENT CALCULATIONS OF COs OF THIRD YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH									
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)	
V SEMESTER - THEORY COURSES									
1	ELECTRICAL MEASUREMENTS & INSTRUMENTATION A2216	A2216.1	84.68	51.83	8.47	60.30	60.00	NO	
2		A2216.2	82.13	56.14	8.21	64.35	60.00	YES	
3		A2216.3	81.06	56.02	8.11	64.13	60.00	YES	
4		A2216.4	84.68	47.97	8.47	56.44	60.00	NO	
5		A2216.5	75.74	59.14	7.57	66.71	60.00	YES	
6	INTEGRATED CIRCUITS APPLICATIONS A2418	A2418.1	86.81	59.42	8.68	68.10	60.00	YES	
7		A2418.2	81.70	55.06	8.17	63.23	60.00	YES	
8		A2418.3	85.53	59.32	8.55	67.87	60.00	YES	
9		A2418.4	86.38	51.25	8.64	59.89	60.00	NO	
10	COMPUTER ARCHITECTURE AND ORGANIZATION A2510	A2510.1	78.30	46.59	7.83	54.42	60.00	NO	
11		A2510.2	73.62	42.45	7.36	49.82	60.00	NO	
12		A2510.3	77.66	37.29	7.77	45.05	60.00	NO	
13		A2510.4	75.96	37.87	7.60	45.47	60.00	NO	

14	ON A2510	A2510.5	77.87	46.57	7.79	54.36	60.00	NO
15	POWER SYSTEM TRANSMISSI ON A2217	A2217.1	80.00	65.14	8.00	73.14	60.00	YES
16		A2217.2	80.85	62.57	8.09	70.66	60.00	YES
17		A2217.3	81.06	67.88	8.11	75.99	60.00	YES
18		A2217.4	83.19	60.54	8.32	68.86	60.00	YES
19		A2217.5	83.19	54.98	8.32	63.30	60.00	YES
20	OBJECT ORIENTED PROGRAMMI NG THROUGH JAVA A2508	A2508.1	78.09	62.85	7.81	70.66	60.00	YES
21		A2508.2	77.45	63.92	7.74	71.67	60.00	YES
22		A2508.3	80.85	61.16	8.09	69.24	60.00	YES
23		A2508.4	77.02	60.91	7.70	68.61	60.00	YES
24		A2508.5	76.17	59.35	7.62	66.97	60.00	YES
25		A2508.6	80.43	64.75	8.04	72.80	60.00	YES
26	POWER SYSTEM DISTRIBUTIO N A2218	A2218.1	77.66	56.52	7.77	64.29	60.00	YES
27		A2218.2	76.60	58.51	7.66	66.17	60.00	YES
28		A2218.3	74.68	57.09	7.47	64.55	60.00	YES
29		A2218.4	79.15	56.73	7.91	64.64	60.00	YES
30		A2218.5	75.11	57.01	7.51	64.52	60.00	YES
V SEMESTER - LABORATORY COURSES								
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
31	ELECTRICAL MEASUREME NTS LAB A2219	A2219.1	85.53	89.45	8.55	98.01	60.00	YES
32		A2219.2	85.32	89.45	8.53	97.99	60.00	YES
33		A2219.3	86.17	89.45	8.62	98.07	60.00	YES
34		A2219.4	87.45	89.45	8.74	98.20	60.00	YES
35	ELECTRONIC CIRCUITS & INTEGRATED CIRCUITS LAB A2423	A2423.1	86.60	86.37	8.66	95.03	60.00	YES
36		A2423.2	86.81	86.37	8.68	95.05	60.00	YES
37		A2423.3	85.53	86.37	8.55	94.93	60.00	YES
38		A2423.4	83.40	86.37	8.34	94.71	60.00	YES
39		A2423.5	87.02	86.37	8.70	95.08	60.00	YES
VI SEMESTER - THEORY COURSES								
S. No	Course Name & Code	CO#	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
40	PROFESSIO NAL ETHICS AND INTELLECTU AL PRPROPERTY RIGHTS A2015	A2015.1	84.67	60.70	8.47	69.17	60.00	YES
41		A2015.2	82.44	66.48	8.24	74.73	60.00	YES
42		A2015.3	83.78	71.70	8.38	80.08	60.00	YES
43		A2015.4	81.78	57.72	8.18	65.90	60.00	YES
44		A2015.5	86.22	55.34	8.62	63.96	60.00	YES
45	POWER ELECTRONIC S A2220	A2220.1	76.67	50.46	7.67	58.12	60.00	NO
46		A2220.2	74.22	50.03	7.42	57.45	60.00	NO
47		A2220.3	75.56	53.13	7.56	60.69	60.00	NO
48		A2220.4	75.56	47.05	7.56	54.60	60.00	NO
49		A2220.5	78.22	47.49	7.82	55.31	60.00	NO

50	COMPUTER METHODS IN POWER SYSTEMS A2221	A2221.1	78.44	63.09	7.84	70.94	60.00	YES
51		A2221.2	80.89	59.42	8.09	67.50	60.00	YES
52		A2221.3	82.22	58.26	8.22	66.48	60.00	YES
53		A2221.4	83.78	67.42	8.38	75.79	60.00	YES
54		A2221.5	83.78	61.19	8.38	69.57	60.00	YES
55	MICRO PROCESSORS AND INTERFACING A2419	A2419.1	85.11	71.55	8.51	80.07	60.00	YES
56		A2419.2	87.11	71.97	8.71	80.68	60.00	YES
57		A2419.3	88.00	64.91	8.80	73.71	60.00	YES
58		A2419.4	87.78	73.91	8.78	82.69	60.00	YES
59		A2419.5	88.44	71.45	8.84	80.30	60.00	YES
60	POWER SYSTEM OPERATION AND CONTROL A2222	A2222.1	90.00	72.75	9.00	81.75	60.00	YES
61		A2222.2	89.11	74.26	8.91	83.17	60.00	YES
62		A2222.3	88.22	74.58	8.82	83.40	60.00	YES
63		A2222.4	90.44	74.33	9.04	83.37	60.00	YES
64		A2222.5	90.44	78.69	9.04	87.74	60.00	YES
65	VLSI DESIGN A2426	A2426.1	77.78	62.96	7.78	70.74	60.00	YES
66		A2426.2	81.11	54.00	8.11	62.12	60.00	YES
67		A2426.3	79.56	75.09	7.96	83.04	60.00	YES
68		A2426.4	81.11	64.89	8.11	73.00	60.00	YES
69		A2426.5	79.56	66.16	7.96	74.12	60.00	YES
70	DATABASE MANAGEMENT SYSTEMS A2514	A2514.1	77.33	52.20	7.73	59.93	60.00	NO
71		A2514.2	80.89	48.64	8.09	56.73	60.00	NO
72		A2514.3	80.22	62.02	8.02	70.04	60.00	YES
73		A2514.4	77.33	52.77	7.73	60.50	60.00	NO
74		A2514.5	79.56	60.82	7.96	68.77	60.00	YES

VI SEMESTER - LABORATORY COURSES

S. No	Course Name & Code	CO#	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
75	POWER ELECTRONICS AND SIMULATION LAB A2223	A2223.1	87.56	86.45	8.76	95.21	60.00	YES
76		A2223.2	88.22	86.45	8.82	95.28	60.00	YES
77		A2223.3	90.00	86.45	9.00	95.45	60.00	YES
78		A2223.4	90.22	86.45	9.02	95.48	60.00	YES
79	MICRO PROCESSORS AND INTERFACING LAB A2424	A2424.1	88.44	90.00	8.84	98.84	60.00	YES
80		A2424.2	88.44	90.00	8.84	98.84	60.00	YES
81		A2424.3	88.22	90.00	8.82	98.82	60.00	YES
82		A2424.4	87.56	90.00	8.76	98.76	60.00	YES

CO Attainments of Fourth Year courses through DA and IDA

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH									
S. No	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
VII SEMESTER - THEORY COURSES									
1	HIGH VOLTAGE ENGINEERING A2224	A2224.1	73.72	78.95	66.35	7.89	74.24	60.00	YES
2		A2224.2	79.58	76.21	71.62	7.62	79.24	60.00	YES
3		A2224.3	63.56	76.00	57.20	7.60	64.80	60.00	YES
4		A2224.4	68.05	76.84	61.25	7.68	68.93	60.00	YES
5		A2224.5	76.72	77.68	69.05	7.77	76.82	60.00	YES
6	POWER SYSTEM SWITCHGEAR AND PROTECTION A2225	A2225.1	70.19	81.89	63.17	8.19	71.36	60.00	YES
7		A2225.2	76.45	82.53	68.80	8.25	77.06	60.00	YES
8		A2225.3	76.43	80.63	68.78	8.06	76.85	60.00	YES
9		A2225.4	75.21	82.53	67.69	8.25	75.95	60.00	YES
10		A2225.5	79.32	79.37	71.39	7.94	79.33	60.00	YES
11	UTILIZATION OF ELECTRICAL ENERGY A2226	A2226.1	68.92	82.32	62.03	8.23	70.26	60.00	YES
12		A2226.2	65.30	78.53	58.77	7.85	66.62	60.00	YES
13		A2226.3	66.21	79.37	59.59	7.94	67.53	60.00	YES
14		A2226.4	62.92	79.79	56.63	7.98	64.61	60.00	YES
15		A2226.5	67.93	82.11	61.14	8.21	69.35	60.00	YES
16	POWER SEMICONDUCTOR DRIVES A2227	A2227.1	50.57	80.00	45.51	8.00	53.51	60.00	NO
17		A2227.2	52.17	81.68	46.95	8.17	55.12	60.00	NO
18		A2227.3	61.89	83.16	55.70	8.32	64.02	60.00	YES
19		A2227.4	66.67	83.16	60.00	8.32	68.31	60.00	YES
20		A2227.5	61.20	81.47	55.08	8.15	63.23	60.00	YES
21	ENTREPRENEURSHIP A2017	A2017.1	86.94	81.89	78.25	8.19	86.44	60.00	YES
22		A2017.2	88.27	84.00	79.44	8.40	87.84	60.00	YES
23		A2017.3	89.22	83.16	80.30	8.32	88.62	60.00	YES
24		A2017.4	89.00	83.16	80.10	8.32	88.41	60.00	YES
25		A2017.5	88.65	84.00	79.78	8.40	88.18	60.00	YES
26	RENEWABLE ENERGY SOURCES A2234	A2234.1	67.20	81.68	60.48	8.17	68.65	60.00	YES
27		A2234.2	66.57	84.00	59.92	8.40	68.32	60.00	YES
28		A2234.3	65.51	82.11	58.96	8.21	67.17	60.00	YES
29		A2234.4	66.31	82.74	59.68	8.27	67.95	60.00	YES
30		A2234.5	67.43	79.58	60.69	7.96	68.65	60.00	YES
VII SEMESTER - LABORATORY COURSES & MINI PROJECT									

S. No	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
31	HIGH VOLTAGE ENGINEERING LAB A2228	A2228.1	100.00	81.68	90.00	8.17	98.17	60.00	YES
32		A2228.2	100.00	82.74	90.00	8.27	98.27	60.00	YES
33		A2228.3	100.00	81.68	90.00	8.17	98.17	60.00	YES
34		A2228.4	100.00	84.42	90.00	8.44	98.44	60.00	YES
35		A2228.5	100.00	84.00	90.00	8.40	98.40	60.00	YES
36	POWER SEMICONDUCTOR DRIVES LAB A2229	A2229.1	100.00	83.58	90.00	8.36	98.36	60.00	YES
37		A2229.2	100.00	81.89	90.00	8.19	98.19	60.00	YES
38		A2229.3	100.00	82.32	90.00	8.23	98.23	60.00	YES
39		A2229.4	100.00	84.21	90.00	8.42	98.42	60.00	YES
40	MINI PROJECT A2236	A2236.1	100.00	86.53	90.00	8.65	98.65	60.00	YES
41		A2236.2	100.00	82.74	90.00	8.27	98.27	60.00	YES
42		A2236.3	100.00	86.11	90.00	8.61	98.61	60.00	YES
43		A2236.4	100.00	84.21	90.00	8.42	98.42	60.00	YES
44		A2236.5	100.00	84.84	90.00	8.48	98.48	60.00	YES
45		A2236.6	100.00	81.89	90.00	8.19	98.19	60.00	YES
VIII SEMESTER - THEORY COURSES									
S. No	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
46	HIGH VOLTAGE DC TRANSMISSION AND FACTS A2237	A2237.1	64.81	80.92	58.33	8.09	66.42	60.00	YES
47		A2237.2	60.47	83.68	54.42	8.37	62.79	60.00	YES
48		A2237.3	64.67	81.38	58.20	8.14	66.34	60.00	YES
49		A2237.4	71.90	84.83	64.71	8.48	73.19	60.00	YES
50	DIGITAL CONTROL SYSTEMS A2243	A2243.1	79.55	81.61	71.60	8.16	79.76	60.00	YES
51		A2243.2	70.01	80.46	63.01	8.05	71.05	60.00	YES
52		A2243.3	64.31	80.23	57.88	8.02	65.90	60.00	YES
53		A2243.4	66.61	80.69	59.95	8.07	68.01	60.00	YES
54	EXTRA HIGH VOLTAGE AC TRANSMISSION A2246	A2246.1	66.24	82.07	59.62	8.21	67.83	60.00	YES
55		A2246.2	55.32	80.92	49.79	8.09	57.88	60.00	NO
56		A2246.3	55.73	79.77	50.16	7.98	58.14	60.00	NO
57		A2246.4	72.09	82.53	64.88	8.25	73.14	60.00	YES
58	RELIABILITY ENGINEERING A2249	A2249.1	65.19	83.45	58.67	8.34	67.01	60.00	YES
59		A2249.2	68.34	83.22	61.50	8.32	69.83	60.00	YES
60		A2249.3	74.18	81.84	66.76	8.18	74.94	60.00	YES
61		A2249.4	64.04	81.84	57.64	8.18	65.82	60.00	YES

62		A2249.5	75.58	78.62	68.02	7.86	75.88	60.00	YES
VIII SEMESTER - LABORATORY COURSE, TECHNICAL SEMINAR, COMPREHENSIVE VIVA AND PROEJCT WORK									
S. No	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
63	POWER SYSTEMS AND SIMULATION LAB A2238	A2238.1	100.00	85.06	90.00	8.51	98.51	60.00	YES
64		A2238.2	100.00	87.36	90.00	8.74	98.74	60.00	YES
65		A2238.3	100.00	85.98	90.00	8.60	98.60	60.00	YES
66		A2238.4	100.00	86.90	90.00	8.69	98.69	60.00	YES
67		A2238.5	100.00	87.59	90.00	8.76	98.76	60.00	YES
68	TECHNICAL SEMINAR A2251	A2251.1	100.00	86.90	90.00	8.69	98.69	60.00	YES
69		A2251.2	100.00	88.28	90.00	8.83	98.83	60.00	YES
70		A2251.3	100.00	87.82	90.00	8.78	98.78	60.00	YES
71		A2251.4	100.00	86.21	90.00	8.62	98.62	60.00	YES
72		A2251.5	100.00	83.91	90.00	8.39	98.39	60.00	YES
73	COMPREHENSIVE VIVA A2252	A2252.1	100.00	86.21	90.00	8.62	98.62	60.00	YES
74		A2252.2	100.00	88.05	90.00	8.80	98.80	60.00	YES
75		A2252.3	100.00	85.75	90.00	8.57	98.57	60.00	YES
76		A2252.4	100.00	86.67	90.00	8.67	98.67	60.00	YES
77		A2252.5	100.00	90.34	90.00	9.03	99.03	60.00	YES
78	PROJECT WORK A2253	A2253.1	100.00	93.10	90.00	9.31	99.31	60.00	YES
79		A2253.2	100.00	92.87	90.00	9.29	99.29	60.00	YES
80		A2253.3	100.00	93.79	90.00	9.38	99.38	60.00	YES
81		A2253.4	100.00	94.48	90.00	9.45	99.45	60.00	YES
82		A2253.5	100.00	93.79	90.00	9.38	99.38	60.00	YES
83		A2253.6	100.00	88.97	90.00	8.90	98.90	60.00	YES

Summary of CO attainments through DA and IDA:

S. No	Particulars of CO	Co Attainment Details
1.	Total No. of COs in the Program	328
2.	No. of COs are attained	288
3.	No. of COs are not attained	40
4.	Percent of COs are attained	88%
5.	Percent of COs are not attained	12%

PO & PSO Attainments through Direct Assessment

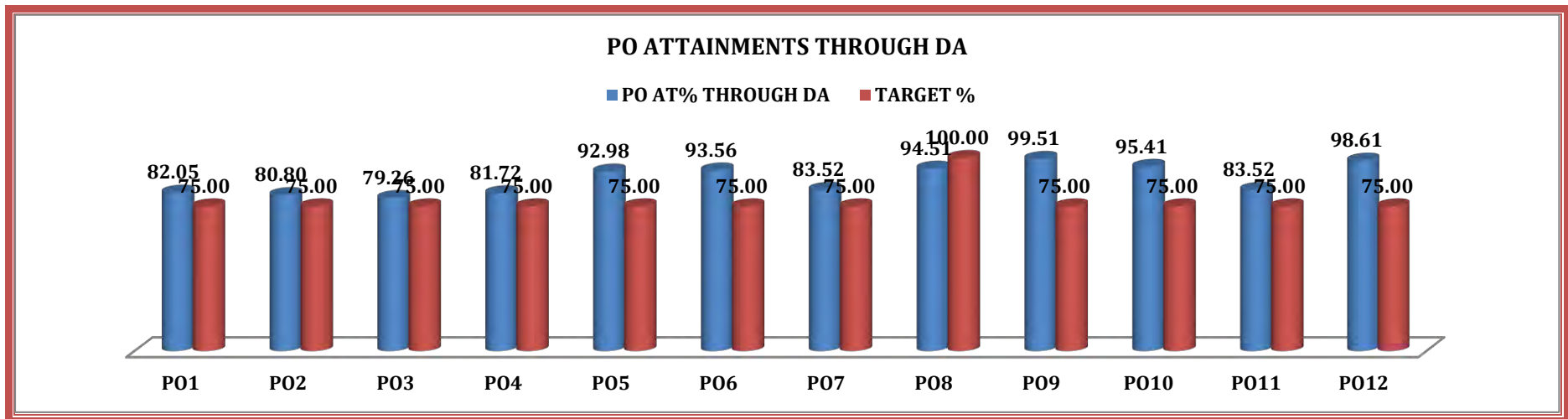
COMPLETE PO ATTAINMENTS THROUGH DIRECT ASSESSMENT																
S. NO.	COURSE NAME	COURSE CODE	POs & PSOs AT Through DA in %													
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
I Year Courses																
1	Mathematics-I	A2001	60.10	60.10												
2	Technical English	A2005		79.63				64.28				64.01				
3	Probability Theory And Numerical Methods	A2004	56.47	56.47												
4	Basic Electrical Engineering	A2201	57.89	60.44	58.09											
5	Computer Programming	A2501	59.91	60.96	66.26	68.33		68.33								
6	Computer Programming Lab	A2502		94.67	94.67	94.67								94.67		
7	English Language	A2009			99.29		99.29				99.29	99.29		99.29		

	Communication Skills Lab															
8	Computer Aided Engineering Drawing Lab	A2306	98.23	98.23		98.23										
9	Mathematics-II	A2006	67.00	67.00												
10	Data Structures Through C	A2503		77.23	73.56	71.16										
11	Engineering Physics	A2002	68.68	68.68					68.59							
12	Engineering Chemistry	A2003	75.18	78.55					74.24							
13	Electronic Devices	A2401	57.55	60.86												
14	Engineering Physics & Engineering Chemistry Lab	A2008	100.00	100.00	100.00	100.00										
15	Data Structures Through C Lab	A2504		99.82	99.82	99.82	99.82							99.82		
16	Electronic Devices Lab	A2404	92.57	92.57	92.57	92.57										
PO AT in % after I Year			72.14	77.01	85.53	89.25	99.56	66.30	71.42		99.29	81.65		97.93		
II Year Courses																
1	Mathematics-III	A2010	62.53	62.53												
2	Network Analysis	A2202	56.73	61.19	61.45	46.02										
3	Electrical Machines-I	A2203	67.09	60.06											60.29	
4	Electromagnetic Fields	A2204	65.56	62.85	66.70										63.30	
5	Managerial Economics And	A2012											50.56			

12	Extra High Voltage Ac Transmission	A2246	61.87	58.56	55.73	72.09			62.35							65.55
13	Reliability Engineering	A2249	65.59	70.39	67.40				65.19						70.96	
14	Power Systems And Simulation Lab	A2238	100	100	100	100	100	100						100	100	100
15	Technical Seminar	A2251	100	100	100		100	100	100	100		100		100	100	100
16	Comprehensive Viva	A2252	100	100	100		100	100	100	100				100	100	100
17	Project Work	A2253	100	100	100	100	100	100	100	100	100	100	100	100	100	100
TOTAL PO DIRECT ATTAINMENTS IN %			82.05	80.80	79.26	81.72	92.98	93.56	83.52	94.51	99.51	95.41	83.52	98.61	83.38	83.30

Summary Attainment of all POs & PSOs of the program through Direct Assessment:

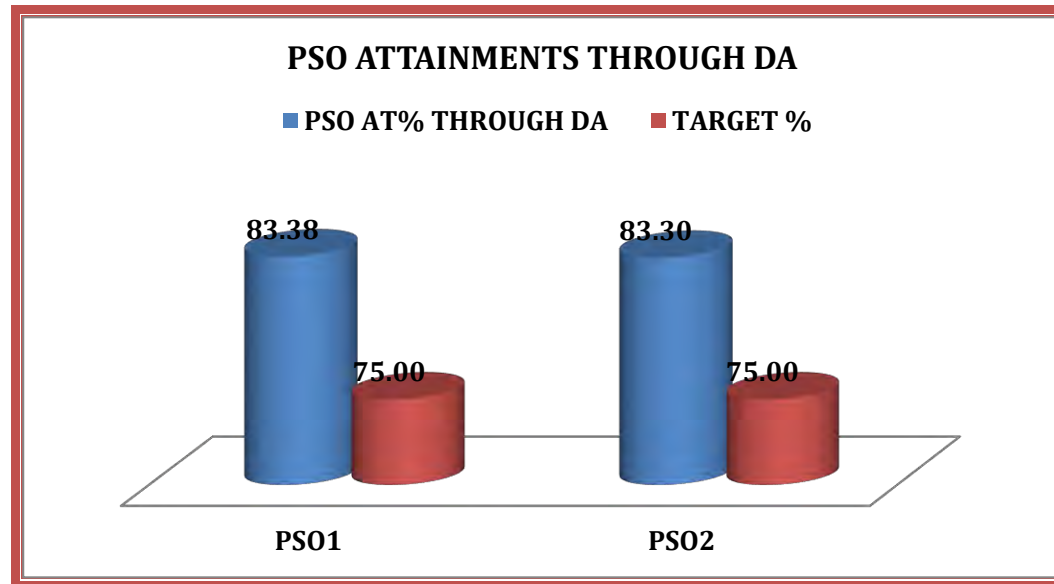
PO #	PO AT% THROUGH DA	TARGET %	ATTAINED (YES/NO)
P01	82.05	75.00	YES
P02	80.80	75.00	YES
P03	79.26	75.00	YES
P04	81.72	75.00	YES
P05	92.98	75.00	YES
P06	93.56	75.00	YES
P07	83.52	75.00	YES
P08	94.51	75.00	YES
P09	99.51	75.00	YES
P010	95.41	75.00	YES
P011	83.52	75.00	YES
P012	98.61	75.00	YES



Summary of POs Attainments through Direct Assessment

Summary of PSOs Attainments through Direct Assessment

PSO #	PSO AT% THROUGH DA	TARGET %	ATTAINED (YES/NO)
PSO1	83.38	75.00	YES
PSO2	83.30	75.00	YES



Summary of PSOs Attainments through Direct Assessment

Remarks:

- ❖ All the PSOs are attained the target set by the program through DA.

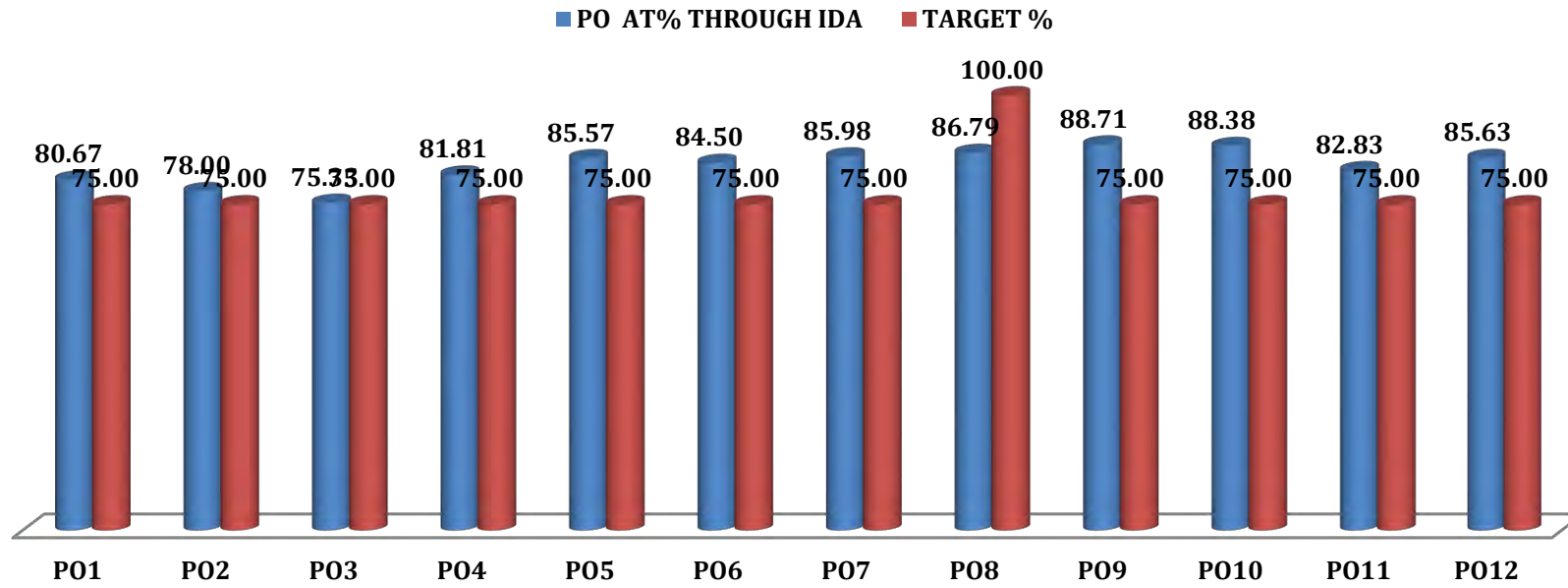
PO & PSO Attainments through Indirect Assessment

COMPLETE PO & PSO ATTAINMENTS THROUGH <i>INDIRECT ASSESSMENT</i>															
S. No.	SURVEY	PO&PSO AT Through IDA in %													
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	Student Exit Survey	80.67	78.00	75.33	77.97	78.64	75.44	77.33	82.71	79.33	78.00	74.00	80.67	77.33	75.33
2	Co-Curricular Activities				85.65	92.50	85.80	91.25		94.56	92.50		87.88	89.56	90.15
3	Extra-Curricular Activities						92.25	89.35	90.87	92.25	94.65	91.65	88.33		
TOTAL PO & PSO ATTAINMENT IN % THROUGH INDIRECT ASSESSMENT		80.67	78.00	75.33	81.81	85.57	84.50	85.98	86.79	88.71	88.38	82.83	85.63	83.45	82.74

Summary Attainment of all POs & PSOs of the program through Indirect Assessment:

PO #	PO AT% THROUGH IDA	TARGET %	ATTAINED (YES/NO)
P01	80.67	75.00	YES
P02	78.00	75.00	YES
P03	75.33	75.00	YES
P04	81.81	75.00	YES
P05	85.57	75.00	YES
P06	84.50	75.00	YES
P07	85.98	75.00	YES
P08	86.79	75.00	YES
P09	88.71	75.00	YES
P010	88.38	75.00	YES
P011	82.83	75.00	YES
P012	85.63	75.00	YES

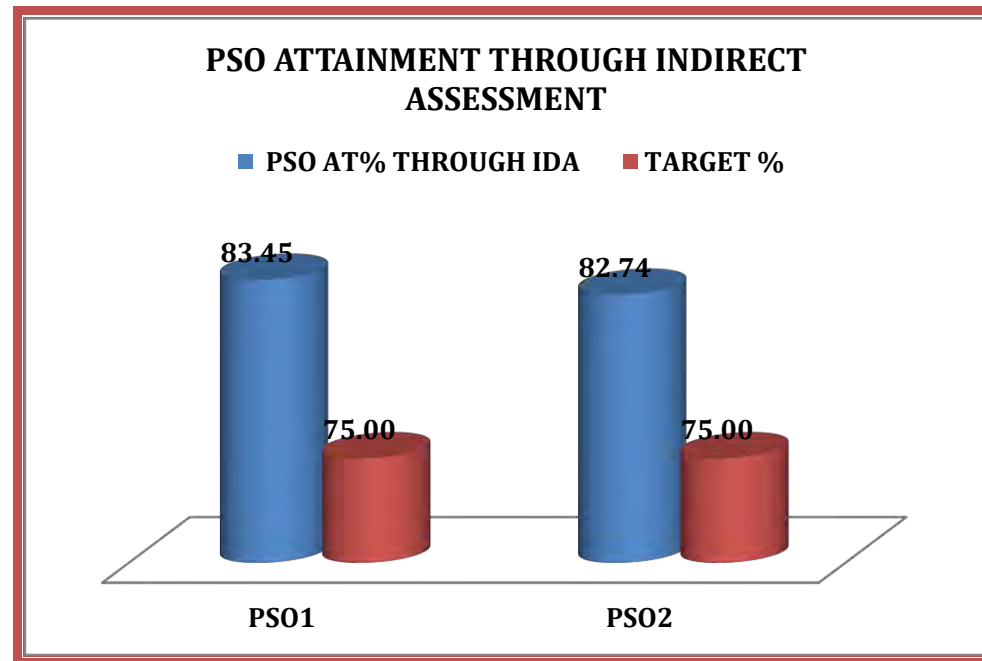
PO ATTAINMENT THROUGH INDIRECT ASSESSMENT



Summary of POs Attainments through Indirect Assessment

Summary of PSOs Attainments through Indirect Assessment

PSO #	PSO AT% THROUGH IDA	TARGET %	ATTAINED (YES/NO)
PSO1	83.45	75.00	YES
PSO2	82.74	75.00	YES



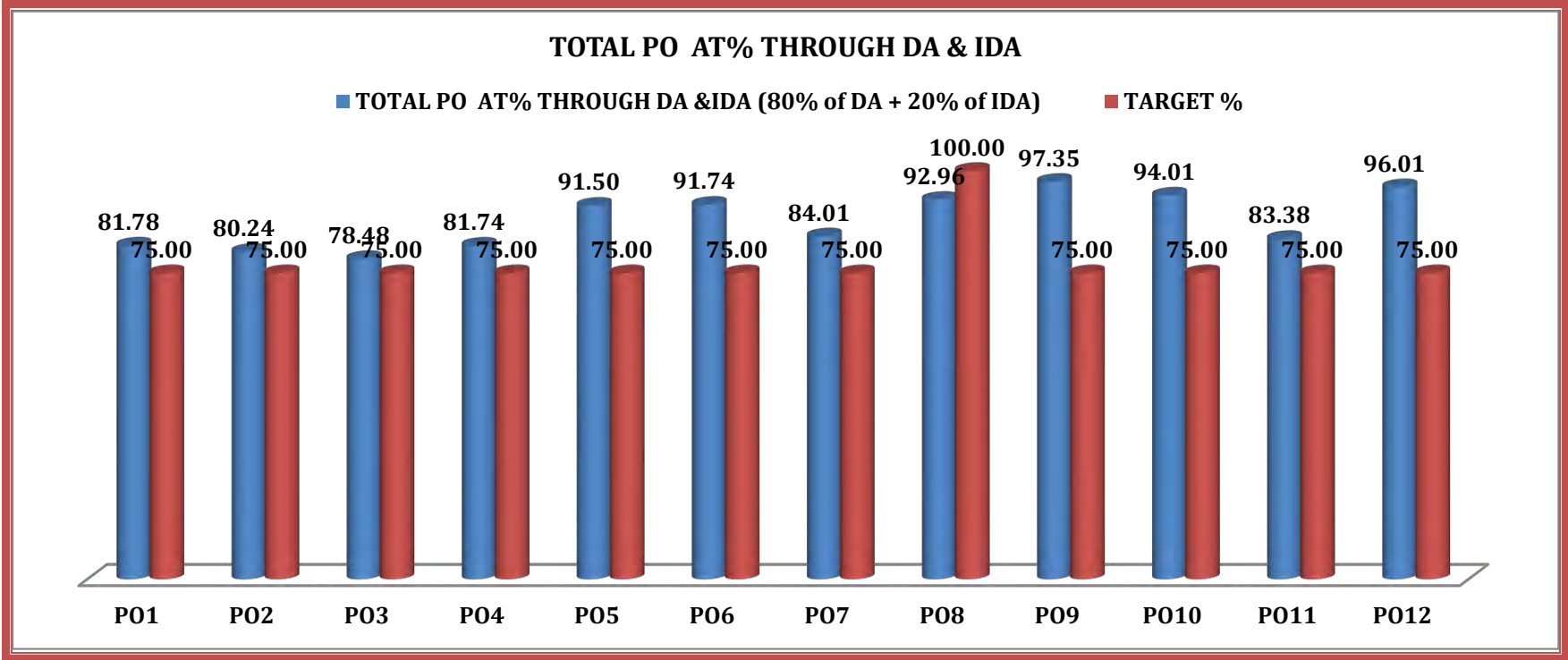
Summary of PSOs Attainments through Indirect Assessment

Remarks:

- ❖ All the PSOs are attained the target set by the program through IDA.

Summary of Total PO & PSO Attainment of the entire program

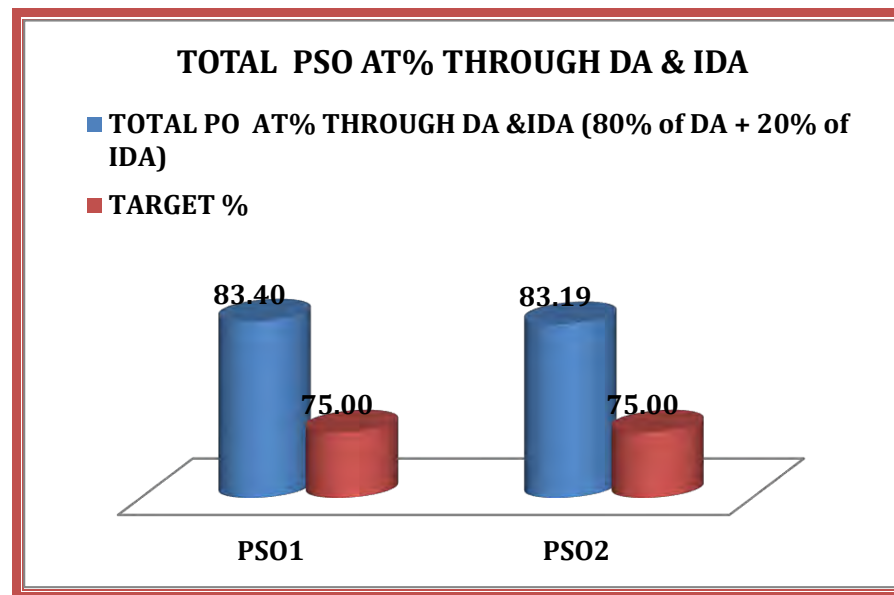
PO #	PO AT% THROUGH DA	PO AT% THROUGH IDA	TOTAL PO AT% THROUGH DA &IDA (80% of DA + 20% of IDA)	TARGET %	ATTAINED (YES/NO)
P01	82.05	80.67	81.78	75.00	YES
P02	80.80	78.00	80.24	75.00	YES
P03	79.26	75.33	78.48	75.00	YES
P04	81.72	81.81	81.74	75.00	YES
P05	92.98	85.57	91.50	75.00	YES
P06	93.56	84.50	91.74	75.00	YES
P07	83.52	85.98	84.01	75.00	YES
P08	94.51	86.79	92.96	75.00	YES
P09	99.51	88.71	97.35	75.00	YES
P010	95.41	88.38	94.01	75.00	YES
P011	83.52	82.83	83.38	75.00	YES
P012	98.61	85.63	96.01	75.00	YES



Summary of Total PO/PSO Attainments

Summary of total PSO AT% through DA & IDA

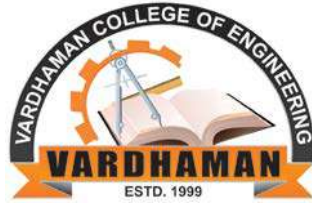
PSO #	PSO AT% THROUGH DA	PSO AT% THROUGH IDA	TOTAL PSO AT% THROUGH DA & IDA (80% of DA + 20% of IDA)	TARGET %	ATTAINED (YES/NO)
PSO1	83.38	83.45	83.40	75.00	YES
PSO2	83.30	82.74	83.19	75.00	YES



Summary of total PO AT% through DA & IDA

Remarks:

- ❖ All the PSOs are attained the target set by the program through DA & IDA.



Attainment of Course Outcomes, Program Outcomes and Program Specific Outcomes

DEPARTMENT OF
INFORMATION TECHNOLOGY

VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD
An autonomous institute, affiliated to JNTUH

CO Attainments of courses through CIE and Semester End Examinations

ATTAINMENT CALCULATIONS OF COs OF FIRST YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH																
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
I SEMESTER - THEORY COURSES																
1	Technical English A2005	A2005.1	64.24	96.02	40.38	62.04	66.97	40.07	6.06	9.31	69.29	55.43	13.39	68.82	60.00	YES
2		A2005.2	84.44		40.38	62.04	66.97	42.22	6.06	9.31	71.98	57.58	13.39	70.98	60.00	YES
3		A2005.3	57.22		40.38	62.04	66.97	28.61	6.06	9.31	54.97	43.97	13.39	57.37	60.00	NO
4		A2005.4		94.49	40.38	62.04	66.97	47.25	6.06	9.31	78.26	62.61	13.39	76.00	60.00	YES
5		A2005.5		91.20	40.38	62.04	66.97	45.60	6.06	9.31	76.21	60.96	13.39	74.36	60.00	YES
6	Mathematics-I A2001	A2001.1	78.70		54.81	72.64	70.09	39.35	8.22	10.90	73.09	58.47	14.02	72.49	60.00	YES
7		A2001.2	87.32		54.81	72.64	70.09	43.66	8.22	10.90	78.47	62.78	14.02	76.80	60.00	YES
8		A2001.3		94.21	54.81	72.64	70.09	47.11	8.22	10.90	82.78	66.22	14.02	80.24	60.00	YES
9		A2001.4		76.68	54.81	72.64	70.09	38.34	8.22	10.90	71.82	57.46	14.02	71.48	60.00	YES
10		A2001.5		88.55	54.81	72.64	70.09	44.28	8.22	10.90	79.24	63.39	14.02	77.41	60.00	YES
11	Probability Theory and Numerical Methods A2004	A2004.1	80.49		69.44	70.75	67.59	40.24	10.42	10.61	76.59	61.27	13.52	74.79	60.00	YES
12		A2004.2	89.19		69.44	70.75	67.59	44.60	10.42	10.61	82.03	65.62	13.52	79.14	60.00	YES
13		A2004.3		81.32	69.44	70.75	67.59	40.66	10.42	10.61	77.11	61.69	13.52	75.21	60.00	YES
14		A2004.4		99.36	69.44	70.75	67.59	49.68	10.42	10.61	88.39	70.71	13.52	84.23	60.00	YES
15		A2004.5		98.94	69.44	70.75	67.59	49.47	10.42	10.61	88.12	70.50	13.52	84.02	60.00	YES
16	Basic Electrical Engineering A2201	A2201.1	91.05	93.89	70.48	76.15	63.30	46.24	10.57	11.42	85.29	68.23	12.66	80.89	60.00	YES
17		A2201.2	94.43	92.91	70.48	76.15	63.30	46.84	10.57	11.42	86.04	68.83	12.66	81.49	60.00	YES
18		A2201.3	98.68		70.48	76.15	63.30	49.34	10.57	11.42	89.17	71.33	12.66	83.99	60.00	YES
19		A2201.4		91.94	70.48	76.15	63.30	45.97	10.57	11.42	84.95	67.96	12.66	80.62	60.00	YES

20	Computer Programming A2501	A2501.1	67.47		74.29	75.93	69.72	33.74	11.14	11.39	70.33	56.27	13.94	70.21	60.00	YES
21		A2501.2	78.06		74.29	75.93	69.72	39.03	11.14	11.39	76.95	61.56	13.94	75.51	60.00	YES
22		A2501.3	90.97	100.00	74.29	75.93	69.72	47.74	11.14	11.39	87.84	70.27	13.94	84.22	60.00	YES
23		A2501.4	83.34	81.71	74.29	75.93	69.72	41.26	11.14	11.39	79.74	63.79	13.94	77.74	60.00	YES
24		A2501.5		84.40	74.29	75.93	69.72	42.20	11.14	11.39	80.92	64.73	13.94	78.68	60.00	YES
25		A2501.6		70.80	74.29	75.93	69.72	35.40	11.14	11.39	72.41	57.93	13.94	71.88	60.00	YES

I SEMESTER - LABORATORY COURSES

S.No.	Course Name & Code	CO#								CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
26	English Language Communication Skills Lab A2009	A2009.1								100.00	55.05	80.00	11.01	91.01	60.00	YES
27		A2009.2								100.00	55.05	80.00	11.01	91.01	60.00	YES
28		A2009.3								100.00	55.05	80.00	11.01	91.01	60.00	YES
29		A2009.4								100.00	55.05	80.00	11.01	91.01	60.00	YES
30		A2009.5								100.00	55.05	80.00	11.01	91.01	60.00	YES
31	Computer Programming LabA2502	A2502.1								99.08	55.96	79.27	11.19	90.46	60.00	YES
32		A2502.2								99.08	55.96	79.27	11.19	90.46	60.00	YES
33		A2502.3								99.08	55.96	79.27	11.19	90.46	60.00	YES
34		A2502.4								99.08	55.96	79.27	11.19	90.46	60.00	YES
		A2502.5								99.08	55.96	79.27	11.19	90.46	60.00	YES
35		A2502.6								99.08	55.96	79.27	11.19	90.46	60.00	YES
36	IT Workshop A2601	A2601.1								100.00	71.56	80.00	14.31	94.31	60.00	YES
37		A2601.2								100.00	71.56	80.00	14.31	94.31	60.00	YES
38		A2601.3								100.00	71.56	80.00	14.31	94.31	60.00	YES
39		A2601.4								100.00	71.56	80.00	14.31	94.31	60.00	YES
40		A2601.5								100.00	71.56	80.00	14.31	94.31	60.00	YES

II SEMESTER - THEORY COURSES

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
41	Mathematics-II A2006	A2006.1	69.01		45.28	56.07	45.79	34.50	6.79	8.41	62.13	49.71	9.16	58.87	60.00	NO
42		A2006.2	58.93		45.28	56.07	45.79	29.46	6.79	8.41	55.83	44.67	9.16	53.83	60.00	NO
43		A2006.3		74.66	45.28	56.07	45.79	37.33	6.79	8.41	65.66	52.53	9.16	61.69	60.00	YES
44		A2006.4		23.33	45.28	56.07	45.79	11.67	6.79	8.41	33.59	26.87	9.16	36.03	60.00	NO
45		A2006.5		57.51	45.28	56.07	45.79	28.75	6.79	8.41	54.95	43.96	9.16	53.12	60.00	NO
46	Engineering Physics A2002	A2002.1	76.40		74.07	53.27	45.28	38.20	11.11	7.99	71.62	57.30	9.06	66.36	60.00	YES
47		A2002.2	93.18		74.07	53.27	45.28	46.59	11.11	7.99	82.11	65.69	9.06	74.75	60.00	YES
48		A2002.3		72.41	74.07	53.27	45.28	36.21	11.11	7.99	69.13	55.31	9.06	64.36	60.00	YES
49		A2002.4		85.54	74.07	53.27	45.28	42.77	11.11	7.99	77.34	61.87	9.06	70.93	60.00	YES
50		A2002.5		85.15	74.07	53.27	45.28	42.57	11.11	7.99	77.09	61.67	9.06	70.73	60.00	YES
51	Engineering Chemistry A2003	A2003.1	88.08		62.04	57.55	53.77	44.04	9.31	8.63	77.47	61.98	10.75	72.73	60.00	YES
52		A2003.2	90.07		62.04	57.55	53.77	45.03	9.31	8.63	78.72	62.97	10.75	73.73	60.00	YES
53		A2003.3	85.81		62.04	57.55	53.77	42.91	9.31	8.63	76.05	60.84	10.75	71.60	60.00	YES
54		A2003.4		93.24	62.04	57.55	53.77	46.62	9.31	8.63	80.69	64.56	10.75	75.31	60.00	YES
55		A2003.5		70.24	62.04	57.55	53.77	35.12	9.31	8.63	66.32	53.06	10.75	63.81	60.00	YES
56	Electronic Devices and Circuits A2402	A2402.1	78.66		51.00	43.40	31.13	39.33	7.65	6.51	66.86	53.49	6.23	59.72	60.00	NO
57		A2402.2	81.35		51.00	43.40	31.13	40.67	7.65	6.51	68.54	54.83	6.23	61.06	60.00	YES
58		A2402.3		84.55	51.00	43.40	31.13	42.27	7.65	6.51	70.54	56.43	6.23	62.66	60.00	YES
59		A2402.4		81.07	51.00	43.40	31.13	40.54	7.65	6.51	68.37	54.70	6.23	60.92	60.00	YES
60		A2402.5		60.54	51.00	43.40	31.13	30.27	7.65	6.51	55.53	44.43	6.23	50.65	60.00	NO
61	Data Structures through C A2503	A2503.1	77.12		66.04	64.76	45.79	38.56	9.91	9.71	72.73	58.18	9.16	67.34	60.00	YES
62		A2503.2	80.13		66.04	64.76	45.79	40.06	9.91	9.71	74.60	59.68	9.16	68.84	60.00	YES
63		A2503.3		72.31	66.04	64.76	45.79	36.16	9.91	9.71	69.72	55.78	9.16	64.94	60.00	YES
64		A2503.4		75.64	66.04	64.76	45.79	37.82	9.91	9.71	71.80	57.44	9.16	66.60	60.00	YES

65		A2503.5		60.53	66.04	64.76	45.79	30.26	9.91	9.71	62.36	49.88	9.16	59.04	60.00	NO	
II SEMESTER - LABORATORY COURSES																	
S.No.	Course Name & Code	CO#									CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
66	Engineering Physics and Engineering Chemistry Lab A2008	A2008.1									100.00	86.92	80.00	17.38	97.38	60.00	YES
67		A2008.2									100.00	86.92	80.00	17.38	97.38	60.00	YES
68		A2008.3									100.00	86.92	80.00	17.38	97.38	60.00	YES
69		A2008.4									100.00	86.92	80.00	17.38	97.38	60.00	YES
		A2008.5									100.00	86.92	80.00	17.38	97.38	60.00	YES
70		A2008.6									100.00	86.92	80.00	17.38	97.38	60.00	YES
71	Electronic Devices and Circuits Lab A2405	A2405.1									99.07	79.25	79.26	15.85	95.11	60.00	YES
72		A2405.2									99.07	79.25	79.26	15.85	95.11	60.00	YES
73		A2405.3									99.07	79.25	79.26	15.85	95.11	60.00	YES
74		A2405.4									99.07	79.25	79.26	15.85	95.11	60.00	YES
75		A2405.5									99.07	79.25	79.26	15.85	95.11	60.00	YES
76	Data Structures through C Lab A2504	A2504.1									99.07	56.07	79.26	11.21	90.47	60.00	YES
77		A2504.2									99.07	56.07	79.26	11.21	90.47	60.00	YES
78		A2504.3									99.07	56.07	79.26	11.21	90.47	60.00	YES
79		A2504.4									99.07	56.07	79.26	11.21	90.47	60.00	YES
80		A2504.5									99.07	56.07	79.26	11.21	90.47	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
III SEMESTER - THEORY COURSES																
1	Managerial Economics And Financial Analysis	A2012.1	75.15		54.13	52.88	36.45	37.58	8.1193	7.93269	67.03	53.63	7.29	60.92	60.00	YES
2		A2012.2	73.34		54.13	52.88	36.45	36.67	8.1193	7.93269	65.90	52.72	7.29	60.01	60.00	YES
3		A2012.3	73.68	65.15	54.13	52.88	36.45	34.71	8.1193	7.93269	63.45	50.76	7.29	58.05	60.00	NO
4		A2012.4		74.15	54.13	52.88	36.45	37.08	8.1193	7.93269	66.41	53.13	7.29	60.42	60.00	YES
		A2012.5		89.66	54.13	52.88	36.45	44.83	8.1193	7.93269	76.10	60.88	7.29	68.17	60.00	YES
5		A2012.6		31.91	54.13	52.88	36.45	15.95	8.1193	7.93269	40.01	32.01	7.29	39.30	60.00	NO
6	Discrete Mathematical Structures	A2505.1	72.18		56.29	75.49	32.67	36.09	8.4435	11.3235	69.82	55.86	6.53	62.39	60.00	YES
7		A2505.2	69.25		56.29	75.49	32.67	34.63	8.4435	11.3235	67.99	54.39	6.53	60.93	60.00	YES
8		A2505.3	68.76		56.29	75.49	32.67	34.38	8.4435	11.3235	67.68	54.15	6.53	60.68	60.00	YES
9		A2505.4		69.73	56.29	75.49	32.67	34.87	8.4435	11.3235	68.29	54.63	6.53	61.17	60.00	YES
10		A2505.5		53.01	56.29	75.49	32.67	26.51	8.4435	11.3235	57.84	46.27	6.53	52.81	60.00	NO
11	Digital Logic Design	A2406.1	68.79		64.32	68.79	32.67	34.40	9.648	10.3185	67.95	54.36	6.53	60.90	60.00	YES
12		A2406.2	69.18		64.32	68.79	32.67	34.59	9.648	10.3185	68.20	54.56	6.53	61.09	60.00	YES
13		A2406.3		68.54	64.32	68.79	32.67	34.27	9.648	10.3185	67.80	54.24	6.53	60.77	60.00	YES
		A2406.4		69.78	64.32	68.79	32.67	34.89	9.648	10.3185	68.57	54.86	6.53	61.39	60.00	YES
14		A2406.5		70.23	64.32	68.79	32.67	35.12	9.648	10.3185	68.85	55.08	6.53	61.62	60.00	YES
15	Operating Systems	A2506.1	77.55		32.38	65.24	41.75	38.77	4.8571	9.786	66.77	53.42	8.35	61.77	60.00	YES
16		A2506.2	75.17		32.38	65.24	41.75	37.59	4.8571	9.786	65.29	52.23	8.35	60.58	60.00	YES
17		A2506.3		70.64	32.38	65.24	41.75	35.32	4.8571	9.786	62.45	49.96	8.35	58.31	60.00	NO
		A2506.4		78.17	32.38	65.24	41.75	39.08	4.8571	9.786	67.16	53.73	8.35	62.08	60.00	YES
18		A2506.5		87.23	32.38	65.24	41.75	43.62	4.8571	9.786	72.83	58.26	8.35	66.61	60.00	YES
19	Computer Architecture and Organization	A2510.1	64.75		72.90	69.37	28.16	32.37	10.935	10.4055	67.14	53.71	5.63	59.34	60.00	NO
20		A2510.2	76.22		72.90	69.37	28.16	38.11	10.935	10.4055	74.31	59.45	5.63	65.08	60.00	YES

21		A2510.3		71.23	72.90	69.37	28.16	35.62	10.935	10.4055	71.19	56.96	5.63	62.59	60.00	YES
22		A2510.4		66.45	72.90	69.37	28.16	33.23	10.935	10.4055	68.21	54.57	5.63	60.20	60.00	YES
23		A2510.5		67.39	72.90	69.37	28.16	33.70	10.935	10.4055	68.79	55.04	5.63	60.67	60.00	YES
24	Object Oriented Programming through JAVA	A2508.1	74.96		62.86	66.36	38.89	37.48	9.4286	9.95455	71.08	56.86	7.78	64.64	60.00	YES
25		A2508.2	46.15		62.86	66.36	38.89	23.08	9.4286	9.95455	53.07	42.46	7.78	50.24	60.00	NO
26		A2508.3		68.02	62.86	66.36	38.89	34.01	9.4286	9.95455	66.74	53.39	7.78	61.17	60.00	YES
27		A2508.4		75.34	62.86	66.36	38.89	37.67	9.4286	9.95455	71.32	57.05	7.78	64.83	60.00	YES
		A2508.5		68.49	62.86	66.36	38.89	34.25	9.4286	9.95455	67.04	53.63	7.78	61.41	60.00	YES
28		A2508.6		81.49	62.86	66.36	38.89	40.74	9.4286	9.95455	75.16	60.13	7.78	67.90	60.00	YES

III SEMESTER - LABORATORY COURSES

S.No.	Course Name & Code	CO#									CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
30	JAVA Programming Lab	A2509.1									95.83	84.38	76.67	16.88	93.54	60.00	YES
31		A2509.2									95.83	84.38	76.67	16.88	93.54	60.00	YES
32		A2509.3									95.83	84.38	76.67	16.88	93.54	60.00	YES
33		A2509.4									95.83	84.38	76.67	16.88	93.54	60.00	YES
34		A2509.5									95.83	84.38	76.67	16.88	93.54	60.00	YES
35	Computer Aided Engineering Drawing Lab	A2306.1									95.37	100.00	76.30	20.00	96.30	60.00	YES
36		A2306.2									95.37	100.00	76.30	20.00	96.30	60.00	YES
37		A2306.3									95.37	100.00	76.30	20.00	96.30	60.00	YES
38		A2306.4									95.37	100.00					
39		A2306.5									95.37	100.00	76.30	20.00	96.30	60.00	YES

IV SEMESTER - THEORY COURSES

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
40	Environmental Science	A2011.1	93.243		88.42	64.71	37.5	46.62	13.26	9.71	86.99	69.59	7.50	77.09	60.00	YES
41		A2011.2	83.202		88.42	64.71	37.5	41.60	13.26	9.71	80.71	64.57	7.50	72.07	60.00	YES
42		A2011.3	81.162		88.42	64.71	37.5	40.58	13.26	9.71	79.44	63.55	7.50	71.05	60.00	YES
43		A2011.4		95.74	88.42	64.71	37.5	47.87	13.26	9.71	88.55	70.84	7.50	78.34	60.00	YES

		A2011.5		87.43	88.42	64.71	37.5	43.71	13.26	9.71	83.35	66.68	7.50	74.18	60.00	YES
44		A2011.6		94.12	88.42	64.71	37.5	47.06	13.26	9.71	87.53	70.03	7.50	77.53	60.00	YES
45	Design and Analysis of Algorithms	A2507.1	73.475		64.15	50.49	33.33	36.74	9.62	7.57	67.42	53.93	6.67	60.60	60.00	YES
46		A2507.2	74.402		64.15	50.49	33.33	37.20	9.62	7.57	68.00	54.40	6.67	61.06	60.00	YES
47		A2507.3	66.809		64.15	50.49	33.33	33.40	9.62	7.57	63.25	50.60	6.67	57.27	60.00	NO
		A2507.4		92.31	64.15	50.49	33.33	46.15	9.62	7.57	79.19	63.35	6.67	70.02	60.00	YES
48		A2507.5		59.13	64.15	50.49	33.33	29.57	9.62	7.57	58.45	46.76	6.67	53.43	60.00	NO
49		A2507.6		62.85	64.15	50.49	33.33	31.43	9.62	7.57	60.78	48.62	6.67	55.29	60.00	NO
50		Formal Languages and Automata Theory	A2511.1	68.55		59.26	57.69	41.58	34.27	8.89	8.65	64.77	51.82	8.32	60.13	60.00
51	A2511.2		68.502		59.26	57.69	41.58	34.25	8.89	8.65	64.74	51.79	8.32	60.11	60.00	YES
52	A2511.3			77.61	59.26	57.69	41.58	38.81	8.89	8.65	70.44	56.35	8.32	64.67	60.00	YES
53	A2511.4			83.33	59.26	57.69	41.58	41.67	8.89	8.65	74.01	59.21	8.32	67.53	60.00	YES
54	A2511.5			66.46	59.26	57.69	41.58	33.23	8.89	8.65	63.47	50.77	8.32	59.09	60.00	NO
55	Software Engineering	A2512.1	71.479		55.66	51.43	70.48	35.74	8.35	7.71	64.75	51.80	14.10	65.90	60.00	YES
56		A2512.2		63.82	55.66	51.43	70.48	31.91	8.35	7.71	59.97	47.97	14.10	62.07	60.00	YES
57		A2512.3		59.93	55.66	51.43	70.48	29.97	8.35	7.71	57.54	46.03	14.10	60.12	60.00	YES
		A2512.4		68.03	55.66	51.43	70.48	34.02	8.35	7.71	62.60	50.08	14.10	64.17	60.00	YES
58		A2512.5			55.66	51.43	70.48	0.00	8.35	7.71	20.08	16.06	14.10	30.16	60.00	NO
59	Unix Programming	A2513.1	53.711		66.36	71.57	44.66	26.86	9.95	10.74	59.43	47.54	8.93	56.48	60.00	NO
60		A2513.2	78.549		66.36	71.57	44.66	39.27	9.95	10.74	74.95	59.96	8.93	68.89	60.00	YES
61		A2513.3		77.67	66.36	71.57	44.66	38.83	9.95	10.74	74.40	59.52	8.93	68.45	60.00	YES
62		A2513.4		68.23	66.36	71.57	44.66	34.12	9.95	10.74	68.50	54.80	8.93	63.74	60.00	YES
63		A2513.5		69.23	66.36	71.57	44.66	34.62	9.95	10.74	69.13	55.30	8.93	64.24	60.00	YES
64	Database Management Systems	A2514.1	60.127	69.64	86.11	79.61	42.16	32.44	12.92	11.94	71.62	57.30	8.43	65.73	60.00	YES
65		A2514.2	65.068		86.11	79.61	42.16	32.53	12.92	11.94	71.74	57.39	8.43	65.82	60.00	YES
66		A2514.3			86.11	79.61	42.16	0.00	12.92	11.94	31.07	24.86	8.43	33.29	60.00	NO
67		A2514.4	77.378		86.11	79.61	42.16	38.69	12.92	11.94	79.43	63.55	8.43	71.98	60.00	YES
		A2514.5		81.38	86.11	79.61	42.16	40.69	12.92	11.94	81.94	65.55	8.43	73.98	60.00	YES
68		A2514.6		88.89	86.11	79.61	42.16	44.44	12.92	11.94	86.63	69.30	8.43	77.73	60.00	YES

IV SEMESTER - LABORATORY COURSES

S.No.	Course Name & Code	CO#		CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
69	Unix Programming Lab	A2515.1		84.38	95.83	67.50	19.17	86.67	60.00	YES
70		A2515.2		84.38	95.83	67.50	19.17	86.67	60.00	YES
71		A2515.3		84.38	95.83	67.50	19.17	86.67	60.00	YES
72		A2515.4		84.38	95.83	67.50	19.17	86.67	60.00	YES
73		A2515.5		84.38	95.83	67.50	19.17	86.67	60.00	YES
74	Database Management Systems Lab	A2516.1		91.43	61.54	73.14	12.31	85.45	60.00	YES
75		A2516.2		91.43	61.54	73.14	12.31	85.45	60.00	YES
76		A2516.3		91.43	61.54	73.14	12.31	85.45	60.00	YES
77		A2516.4		91.43	61.54	73.14	12.31	85.45	60.00	YES
78		A2516.5		91.43	61.54	73.14	12.31	85.45	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF THIRD YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH																
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
V SEMESTER - THEORY COURSES																
1	Microprocessors and Interfacing	A2419.1	80.94	87.50	36.73	78.57	36.08	42.11	5.51	11.79	74.26	59.41	7.22	66.62	60.00	YES
2		A2419.2	80.77		36.73	78.57	36.08	40.38	5.51	11.79	72.10	57.68	7.22	64.90	60.00	YES
3		A2419.3	63.87	80.89	36.73	78.57	36.08	36.19	5.51	11.79	66.86	53.49	7.22	60.70	60.00	YES
4		A2419.4		56.12	36.73	78.57	36.08	28.06	5.51	11.79	56.69	45.35	7.22	52.57	60.00	NO
5		A2419.5		73.97	36.73	78.57	36.08	36.99	5.51	11.79	67.85	54.28	7.22	61.50	60.00	YES
6	Compiler Design	A2517.1	65.14		52.14	75.34	32.99	32.57	7.82	11.30	64.62	51.69	6.60	58.29	60.00	NO
7		A2517.2	75.93		52.14	75.34	32.99	37.97	7.82	11.30	71.36	57.09	6.60	63.69	60.00	YES
8		A2517.3		72.14	52.14	75.34	32.99	36.07	7.82	11.30	68.99	55.19	6.60	61.79	60.00	YES

		A2517.4		69.18	52.14	75.34	32.99	34.59	7.82	11.30	67.14	53.71	6.60	60.31	60.00	YES
9		A2517.5		45.60	52.14	75.34	32.99	22.80	7.82	11.30	52.40	41.92	6.60	48.52	60.00	NO
10	Computer Networks	A2602.1	72.14		68.49	62.24	26.53	36.07	10.27	9.34	69.60	55.68	5.31	60.99	60.00	YES
11		A2602.2	71.24		68.49	62.24	26.53	35.62	10.27	9.34	69.04	55.23	5.31	60.54	60.00	YES
12		A2602.3	69.15	71.28	68.49	62.24	26.53	35.11	10.27	9.34	68.40	54.72	5.31	60.02	60.00	YES
13		A2602.4		65.15	68.49	62.24	26.53	32.58	10.27	9.34	65.23	52.19	5.31	57.49	60.00	NO
		A2602.5		65.15	68.49	62.24	26.53	32.58	10.27	9.34	65.23	52.19	5.31	57.49	60.00	NO
14		A2602.6		72.15	68.49	62.24	26.53	36.08	10.27	9.34	69.61	55.69	5.31	60.99	60.00	YES
15		Web Technologies	A2603.1	67.26		73.29	69.39	25.77	33.63	10.99	10.41	68.79	55.03	5.15	60.19	60.00
16	A2603.2		69.14		73.29	69.39	25.77	34.57	10.99	10.41	69.96	55.97	5.15	61.13	60.00	YES
17	A2603.3			69.18	73.29	69.39	25.77	34.59	10.99	10.41	69.99	55.99	5.15	61.15	60.00	YES
18	A2603.4			67.19	73.29	69.39	25.77	33.60	10.99	10.41	68.75	55.00	5.15	60.15	60.00	YES
19	A2603.5			72.41	73.29	69.39	25.77	36.21	10.99	10.41	72.01	57.61	5.15	62.76	60.00	YES
20	Mobile Application Development	A2604.1	93.35		53.06	79.59	37.76	46.68	7.96	11.94	83.22	66.57	7.55	74.13	60.00	YES
21		A2604.2	76.18		53.06	79.59	37.76	38.09	7.96	11.94	72.49	57.99	7.55	65.54	60.00	YES
22		A2604.3		65.14	53.06	79.59	37.76	32.57	7.96	11.94	65.58	52.47	7.55	60.02	60.00	YES
23		A2604.4		65.34	53.06	79.59	37.76	32.67	7.96	11.94	65.71	52.57	7.55	60.12	60.00	YES
24		A2604.5		69.84	53.06	79.59	37.76	34.92	7.96	11.94	68.52	54.82	7.55	62.37	60.00	YES
25		A2604.6		68.98	53.06	79.59	37.76	34.49	7.96	11.94	67.98	54.39	7.55	61.94	60.00	YES
26	Wireless and Mobile Computing	A2605.1	93.75		69.21	51.02	34.02	46.88	10.38	7.65	81.14	64.91	6.80	71.71	60.00	YES
27		A2605.2	71.24		69.21	51.02	34.02	35.62	10.38	7.65	67.07	53.65	6.80	60.46	60.00	YES
28		A2605.3	70.16		69.21	51.02	34.02	35.08	10.38	7.65	66.39	53.11	6.80	59.92	60.00	NO
29		A2605.4		73.28	69.21	51.02	34.02	36.64	10.38	7.65	68.34	54.67	6.80	61.48	60.00	YES
		A2605.5		71.25	69.21	51.02	34.02	35.63	10.38	7.65	67.07	53.66	6.80	60.46	60.00	YES
30		A2605.6		72.65	69.21	51.02	34.02	36.33	10.38	7.65	67.95	54.36	6.80	61.16	60.00	YES

V SEMESTER - LABORATORY COURSES

S.No.	Course Name & Code	CO#						CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
31	Microprocessors and Interfacing	A2424.1						100.00	100.00	80.00	20.00	100.00	60.00	YES
32		A2424.2						100.00	100.00	80.00	20.00	100.00	60.00	YES

33	Lab	A2424.3									100.00	100.00	80.00	20.00	100.00	60.00	YES
34		A2424.4									100.00	100.00	80.00	20.00	100.00	60.00	YES
35	Web Technologies Lab	A2606.1									93.75	76.84	75.00	15.37	90.37	60.00	YES
36		A2606.2									93.75	76.84	75.00	15.37	90.37	60.00	YES
37		A2606.3									93.75	76.84	75.00	15.37	90.37	60.00	YES
38		A2606.4									93.75	76.84	75.00	15.37	90.37	60.00	YES
39		A2606.5									93.75	76.84	75.00	15.37	90.37	60.00	YES

VI SEMESTER - THEORY COURSES

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
40	Embedded Systems	A2425.1	21.92		72.92	83.16	66.67	10.96	10.94	12.47	42.96	34.37	13.33	47.70	60.00	NO
41		A2425.2	41.29		72.92	83.16	66.67	20.65	10.94	12.47	55.07	44.06	13.33	57.39	60.00	NO
42		A2425.3	34.69		72.92	83.16	66.67	17.34	10.94	12.47	50.94	40.75	13.33	54.09	60.00	NO
43		A2425.4		59.39	72.92	83.16	66.67	29.70	10.94	12.47	66.38	53.11	13.33	66.44	60.00	YES
		A2425.5		48.63	72.92	83.16	66.67	24.31	10.94	12.47	59.66	47.73	13.33	61.06	60.00	YES
44		A2425.6		65.08	72.92	83.16	66.67	32.54	10.94	12.47	69.94	55.95	13.33	69.29	60.00	YES
45	Object Oriented Analysis and Design	A2520.1	70.28		69.07	71.43	39.18	35.14	10.36	10.71	70.27	56.21	7.84	64.05	60.00	YES
46		A2520.2	56.18	96.55	69.07	71.43	39.18	38.18	10.36	10.71	74.07	59.26	7.84	67.09	60.00	YES
47		A2520.3		81.84	69.07	71.43	39.18	40.92	10.36	10.71	77.49	61.99	7.84	69.83	60.00	YES
48		A2520.4		83.72	69.07	71.43	39.18	41.86	10.36	10.71	78.67	62.94	7.84	70.77	60.00	YES
49		A2520.5		84.75	69.07	71.43	39.18	42.37	10.36	10.71	79.31	63.45	7.84	71.28	60.00	YES
50	Data Ware Housing and Data Mining	A2523.1	84.38		56.70	69.28	30.53	42.19	8.51	10.39	76.36	61.08	6.11	67.19	60.00	YES
51		A2523.2	63.57		56.70	69.28	30.53	31.79	8.51	10.39	63.35	50.68	6.11	56.79	60.00	NO
52		A2523.3	68.05	72.36	56.70	69.28	30.53	35.10	8.51	10.39	67.50	54.00	6.11	60.10	60.00	YES
53		A2523.4	74.77	68.27	56.70	69.28	30.53	35.76	8.51	10.39	68.32	54.66	6.11	60.76	60.00	YES
54		A2523.5		71.28	56.70	69.28	30.53	35.64	8.51	10.39	68.17	54.54	6.11	60.64	60.00	YES
55	Network Security and Cryptography	A2607.1	89.33		97.94	55.67	33.33	44.67	14.69	8.35	84.63	67.71	6.67	74.37	60.00	YES
56		A2607.2	60.58		97.94	55.67	33.33	30.29	14.69	8.35	66.66	53.33	6.67	60.00	60.00	YES
57		A2607.3	66.00		97.94	55.67	33.33	33.00	14.69	8.35	70.05	56.04	6.67	62.71	60.00	YES

58		A2607.4		43.94	97.94	55.67	33.33	21.97	14.69	8.35	56.26	45.01	6.67	51.68	60.00	NO
		A2607.5		63.64	97.94	55.67	33.33	31.82	14.69	8.35	68.58	54.86	6.67	61.53	60.00	YES
59		A2607.6		61.27	97.94	55.67	33.33	30.64	14.69	8.35	67.10	53.68	6.67	60.34	60.00	YES
60	Open Source Technologies	A2608.1	77.10		91.75	80.41	47.42	38.55	13.76	12.06	80.47	64.37	9.48	73.86	60.00	YES
61		A2608.2		81.94	91.75	80.41	47.42	40.97	13.76	12.06	83.49	66.79	9.48	76.28	60.00	YES
62		A2608.3	45.82	79.88	91.75	80.41	47.42	31.43	13.76	12.06	71.56	57.25	9.48	66.74	60.00	YES
63		A2608.4		62.70	91.75	80.41	47.42	31.35	13.76	12.06	71.47	57.17	9.48	66.66	60.00	YES
64		A2608.5			91.75	80.41	47.42	0.00	13.76	12.06	32.28	25.82	9.48	35.31	60.00	NO
65	Entrepreneurship	A2017.1	94.45		99.55	99.61	22.68	47.22	14.93	14.94	96.37	77.10	4.54	81.63	60.00	YES
66		A2017.2	96.41		99.55	99.61	22.68	48.20	14.93	14.94	97.60	78.08	4.54	82.61	60.00	YES
67		A2017.3		99.55	99.55	99.61	22.68	49.77	14.93	14.94	99.56	79.65	4.54	84.18	60.00	YES
68		A2017.4		99.61	99.55	99.61	22.68	49.80	14.93	14.94	99.60	79.68	4.54	84.21	60.00	YES
69		A2017.5		99.09	99.55	99.61	22.68	49.55	14.93	14.94	99.27	79.42	4.54	83.95	60.00	YES

VI SEMESTER - LABORATORY COURSES

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
75	Open Source Technologies Lab	A2609.1								98.95	87.37	79.16	17.47	96.63	60.00	YES
76		A2609.2								98.95	87.37	79.16	17.47	96.63	60.00	YES
77		A2609.3								98.95	87.37	79.16	17.47	96.63	60.00	YES
		A2609.4								98.95	87.37	79.16	17.47	96.63	60.00	YES
78		A2609.5								98.95	87.37	79.16	17.47	96.63	60.00	YES
79	Case tools and Data Mining Lab	A2610.1								98.95	87.37	79.16	17.47	96.63	60.00	YES
80		A2610.2								98.95	87.37	79.16	17.47	96.63	60.00	YES
81		A2610.3								98.95	87.37	79.16	17.47	96.63	60.00	YES
		A2610.4								98.95	87.37	79.16	17.47	96.63	60.00	YES
82		A2610.5								98.95	87.37	79.16	17.47	96.63	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
VII SEMESTER - THEORY COURSES																
1	Software Project Management	A2522.1	59.23	62.69	93.75	57.29	58.33	30.48	14.06	8.59	66.42	53.14	11.67	64.80	60.00	YES
2		A2522.2	62.90	84.74	93.75	57.29	58.33	36.91	14.06	8.59	74.46	59.57	11.67	71.23	60.00	YES
3		A2522.3	66.67	84.39	93.75	57.29	58.33	37.77	14.06	8.59	75.53	60.42	11.67	72.09	60.00	YES
4		A2522.4	85.71	82.00	93.75	57.29	58.33	41.93	14.06	8.59	80.73	64.59	11.67	76.25	60.00	YES
5	Cloud Computing	A2611.1	63.46		51.04	73.96	59.38	31.73	7.66	11.09	63.10	50.48	11.88	62.36	60.00	YES
6		A2611.2	54.67		51.04	73.96	59.38	27.33	7.66	11.09	57.60	46.08	11.88	57.96	60.00	NO
7		A2611.3	63.49		51.04	73.96	59.38	31.75	7.66	11.09	63.12	50.50	11.88	62.37	60.00	YES
8		A2611.4	63.82	63.37	51.04	73.96	59.38	31.80	7.66	11.09	63.18	50.55	11.88	62.42	60.00	YES
9		A2611.5	68.36	71.53	51.04	73.96	59.38	34.97	7.66	11.09	67.15	53.72	11.88	65.60	60.00	YES
10	Cyber Security	A2612.1	65.77		96.88	41.05	32.29	32.88	14.53	6.16	66.97	53.57	6.46	60.03	60.00	YES
11		A2612.2	72.34		96.88	41.05	32.29	36.17	14.53	6.16	71.07	56.86	6.46	63.32	60.00	YES
12		A2612.3	69.45	65.23	96.88	41.05	32.29	33.67	14.53	6.16	67.95	54.36	6.46	60.82	60.00	YES
13		A2612.4		66.45	96.88	41.05	32.29	33.23	14.53	6.16	67.39	53.91	6.46	60.37	60.00	YES
14		A2612.5		38.22	96.88	41.05	32.29	19.11	14.53	6.16	49.75	39.80	6.46	46.26	60.00	NO
15	Software Testing and Quality Assurance	A2613.1	54.61	74.62	52.08	58.33	55.21	32.31	7.81	8.75	61.09	48.87	11.04	59.91	60.00	NO
16		A2613.2		73.50	52.08	58.33	55.21	36.75	7.81	8.75	66.64	53.31	11.04	64.35	60.00	YES
17		A2613.3	43.65	65.22	52.08	58.33	55.21	27.22	7.81	8.75	54.72	43.78	11.04	54.82	60.00	NO
18		A2613.4		84.51	52.08	58.33	55.21	42.25	7.81	8.75	73.52	58.82	11.04	69.86	60.00	YES
19		A2613.5		72.99	52.08	58.33	55.21	36.49	7.81	8.75	66.32	53.06	11.04	64.10	60.00	YES
20	Distributed	A2532.1			96.88	90.63	64.52	0.00	14.53	13.59	35.16	28.13	12.90	41.03	60.00	NO

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
21	Databases	A2532.2	77.63	66.52	96.88	90.63	64.52	36.04	14.53	13.59	80.20	64.16	12.90	77.07	60.00	YES
22		A2532.3	77.56	75.47	96.88	90.63	64.52	38.26	14.53	13.59	82.98	66.38	12.90	79.29	60.00	YES
23		A2532.4	69.49	53.74	96.88	90.63	64.52	30.81	14.53	13.59	73.66	58.93	12.90	71.83	60.00	YES
24		A2532.5		49.52	96.88	90.63	64.52	24.76	14.53	13.59	66.11	52.89	12.90	65.79	60.00	YES
25		A2532.6		75.68	96.88	90.63	64.52	37.84	14.53	13.59	82.45	65.96	12.90	78.87	60.00	YES
26		Distributed Operating Systems	A2527.1	96.37		97.50	62.50	48.72	48.18	14.63	9.38	90.23	72.18	9.74	81.93	60.00
27	A2527.2		91.75	88.31	97.50	62.50	48.72	45.02	14.63	9.38	86.27	69.02	9.74	78.76	60.00	YES
28	A2527.3		100.00		97.50	62.50	48.72	50.00	14.63	9.38	92.50	74.00	9.74	83.74	60.00	YES
29	A2527.4		100.00	87.29	97.50	62.50	48.72	46.82	14.63	9.38	88.53	70.82	9.74	80.57	60.00	YES
30	A2527.5		94.44	88.89	97.50	62.50	48.72	45.83	14.63	9.38	87.29	69.83	9.74	79.58	60.00	YES
31	A2527.6		95.65	88.89	97.50	62.50	48.72	46.14	14.63	9.38	87.67	70.14	9.74	79.88	60.00	YES
32	Computer Graphics	A2614.1	80.26		79.63	81.48	51.85	40.13	11.94	12.22	80.37	64.29	10.37	74.66	60.00	YES
33		A2614.2	64.13		79.63	81.48	51.85	32.07	11.94	12.22	70.29	56.23	10.37	66.60	60.00	YES
34		A2614.3		45.85	79.63	81.48	51.85	22.93	11.94	12.22	58.87	47.09	10.37	57.46	60.00	NO
35		A2614.4		55.86	79.63	81.48	51.85	27.93	11.94	12.22	65.12	52.10	10.37	62.47	60.00	YES
36		A2614.5		52.48	79.63	81.48	51.85	26.24	11.94	12.22	63.01	50.41	10.37	60.78	60.00	YES
		A2614.6		76.60	79.63	81.48	51.85	38.30	11.94	12.22	78.08	62.46	10.37	72.83	60.00	YES

VII SEMESTER - LABORATORY COURSES & MINI PROJECT

S.No.	Course Name & Code	CO#				CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
31	Cloud Computing Lab	A2618.1				100.00	96.88	80.00	19.38	99.38	60.00	YES
32		A2618.2				100.00	96.88	80.00	19.38	99.38	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
33		A2618.3								100.00	96.88	80.00	19.38	99.38	60.00	YES
34		A2618.4								100.00	96.88	80.00	19.38	99.38	60.00	YES
35		A2618.5								100.00	96.88	80.00	19.38	99.38	60.00	YES
36	Software Testing and Quality Assurance Lab	A2619.1								98.96	98.96	79.17	19.79	98.96	60.00	YES
37		A2619.2								98.96	98.96	79.17	19.79	98.96	60.00	YES
38		A2619.3								98.96	98.96	79.17	19.79	98.96	60.00	YES
39		A2619.4								98.96	98.96	79.17	19.79	98.96	60.00	YES
40	Mini Project	A2620.1								100.00		100.00		100.00	60.00	YES
41		A2620.2								100.00		100.00		100.00	60.00	YES
42		A2620.3								100.00		100.00		100.00	60.00	YES
43		A2620.4								100.00		100.00		100.00	60.00	YES
44		A2620.5								100.00		100.00		100.00	60.00	YES
45		A2620.6								100.00		100.00		100.00	60.00	YES

VIII SEMESTER - THEORY COURSES

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
46	Professional Ethics and Intellectual Property Rights	A2015.1	75.17		79.17	45.74	89.47	37.58	11.88	6.86	70.40	56.32	17.89	74.22	60.00	YES
47		A2015.2	40.57	85.37	79.17	45.74	89.47	31.49	11.88	6.86	62.78	50.22	17.89	68.12	60.00	YES
48		A2015.3		75.00	79.17	45.74	89.47	37.50	11.88	6.86	70.30	56.24	17.89	74.13	60.00	YES
		A2015.4		88.89	79.17	45.74	89.47	44.44	11.88	6.86	78.98	63.18	17.89	81.08	60.00	YES
49		A2015.5		91.84	79.17	45.74	89.47	45.92	11.88	6.86	80.82	64.66	17.89	82.55	60.00	YES
50	Human Computer Interaction	A2624.1	80.75		92.71	76.84	68.42	40.38	13.91	11.53	82.26	65.81	13.68	79.49	60.00	YES
51		A2624.2	93.43		92.71	76.84	68.42	46.71	13.91	11.53	90.18	72.15	13.68	85.83	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15% of Q1	15% of Q2	TOTAL CIE	80% of CIE	20% of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
52		A2624.3	93.24		92.71	76.84	68.42	46.62	13.91	11.53	90.06	72.05	13.68	85.74	60.00	YES
		A2624.4		85.32	92.71	76.84	68.42	42.66	13.91	11.53	85.12	68.09	13.68	81.78	60.00	YES
53		A2624.5		92.95	92.71	76.84	68.42	46.47	13.91	11.53	89.88	71.91	13.68	85.59	60.00	YES
54	Information Retrieval Systems	A2626.1	87.35		94.44	43.40	73.58	43.68	14.17	6.51	80.44	64.35	14.72	79.07	60.00	YES
55		A2626.2	85.43		94.44	43.40	73.58	42.72	14.17	6.51	79.24	63.39	14.72	78.11	60.00	YES
56		A2626.3		76.62	94.44	43.40	73.58	38.31	14.17	6.51	73.73	58.98	14.72	73.70	60.00	YES
		A2626.4		90.62	94.44	43.40	73.58	45.31	14.17	6.51	82.48	65.98	14.72	80.70	60.00	YES
57		A2626.5		82.65	94.44	43.40	73.58	41.32	14.17	6.51	77.50	62.00	14.72	76.72	60.00	YES
58	Semantic Web and Social Networks	A2627.1	67.33		88.10	77.50	68.42	33.67	13.21	11.63	73.13	58.51	13.68	72.19	60.00	YES
59		A2627.2	53.93		88.10	77.50	68.42	26.97	13.21	11.63	64.76	51.81	13.68	65.49	60.00	YES
60		A2627.3		57.71	88.10	77.50	68.42	28.86	13.21	11.63	67.12	53.70	13.68	67.38	60.00	YES
61		A2627.4		26.85	88.10	77.50	68.42	13.43	13.21	11.63	47.83	38.27	13.68	51.95	60.00	NO
62		A2627.5		9.69	88.10	77.50	68.42	4.85	13.21	11.63	37.11	29.69	13.68	43.37	60.00	NO

VIII SEMESTER - LABORATORY COURSE, TECHNICAL SEMINAR, COMPREHENSIVE VIVA AND PROEJCT WORK

S.No.	Course Name & Code	CO#					CIE	SEE	80% of CIE	20% of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
63	Industry Oriented Design Lab	A2537.1					98.96	98.95	79.17	19.79	98.96	60.00	YES
64		A2537.2					98.96	98.95	79.17	19.79	98.96	60.00	YES
65		A2537.3					98.96	98.95	79.17	19.79	98.96	60.00	YES
66		A2537.4					98.96	98.95	79.17	19.79	98.96	60.00	YES
67		A2537.5					98.96	98.95	79.17	19.79	98.96	60.00	YES
68	TECHNICAL	A2631.1					100.00		100.00		100.00	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF *FOURTH YEAR COURSES* THROUGH SEE & CIE FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	SEE	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	80 % of CIE	20 % of SEE	Total CO AT in %	Target AT in %	CO Attained (YES/NO)
69	SEMINAR	A2631.2								100.00		100.00		100.00	60.00	YES
70		A2631.3								100.00		100.00		100.00	60.00	YES
71		A2631.4								100.00		100.00		100.00	60.00	YES
72		A2631.5								100.00		100.00		100.00	60.00	YES
73	COMPREHENSIVE VIVA	A2632.1									100.00		100.00	100.00	60.00	YES
74		A2632.2									100.00		100.00	100.00	60.00	YES
75		A2632.3									100.00		100.00	100.00	60.00	YES
76		A2632.4									100.00		100.00	100.00	60.00	YES
77		A2632.5										100.00		100.00	100.00	60.00
78	PROJECT WORK	A2633.1								100.00	100.00	80.00	20.00	100.00	60.00	YES
79		A2633.2								100.00	100.00	80.00	20.00	100.00	60.00	YES
80		A2633.3								100.00	100.00	80.00	20.00	100.00	60.00	YES
81		A2633.4								100.00	100.00	80.00	20.00	100.00	60.00	YES
82		A2633.5								100.00	100.00	80.00	20.00	100.00	60.00	YES
83		A2633.6								100.00	100.00	80.00	20.00	100.00	60.00	YES

Overall CO Attainments

<i>ATTAINMENT CALCULATIONS OF COs OF FIRST YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH</i>									
S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
I SEMESTER - THEORY COURSES									
1	Technical English A2005	A2005.1	68.82	88.18	61.94	8.82	70.76	60.00	YES
2		A2005.2	70.98	86.91	63.88	8.69	72.57	60.00	YES
3		A2005.3	57.37	85.64	51.63	8.56	60.20	60.00	YES
4		A2005.4	76.00	85.45	68.40	8.55	76.95	60.00	YES
5		A2005.5	74.36	86.18	66.92	8.62	75.54	60.00	YES
6	Mathematics-I A2001	A2001.1	72.49	82.36	65.24	8.24	73.48	60.00	YES
7		A2001.2	76.80	82.55	69.12	8.25	77.37	60.00	YES
8		A2001.3	80.24	83.64	72.22	8.36	80.58	60.00	YES
9		A2001.4	71.48	86.18	64.33	8.62	72.95	60.00	YES
10		A2001.5	77.41	88.36	69.67	8.84	78.51	60.00	YES
11	Probability	A2004.1	74.79	84.91	67.31	8.49	75.80	60.00	YES

12	Theory and Numerical Methods A2004	A2004.2	79.14	85.27	71.23	8.53	79.76	60.00	YES
13		A2004.3	75.21	84.18	67.69	8.42	76.10	60.00	YES
14		A2004.4	84.23	85.82	75.80	8.58	84.39	60.00	YES
15		A2004.5	84.02	86.18	75.61	8.62	84.23	60.00	YES
16	Basic Electrical Engineering A2201	A2201.1	80.89	86.91	72.80	8.69	81.49	60.00	YES
17		A2201.2	81.49	86.00	73.34	8.60	81.94	60.00	YES
18		A2201.3	83.99	86.91	75.59	8.69	84.29	60.00	YES
19		A2201.4	80.62	85.64	72.56	8.56	81.12	60.00	YES
20	Computer Programming A2501	A2501.1	70.21	86.00	63.19	8.60	71.79	60.00	YES
21		A2501.2	75.51	86.00	67.96	8.60	76.56	60.00	YES
22		A2501.3	84.22	86.36	75.80	8.64	84.43	60.00	YES
23		A2501.4	77.74	86.55	69.96	8.65	78.62	60.00	YES
24		A2501.5	78.68	85.45	70.81	8.55	79.36	60.00	YES
25		A2501.6	71.88	85.82	64.69	8.58	73.27	60.00	YES

I SEMESTER - LABORATORY COURSES

S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
26	English Language Communication Skills Lab A2009	A2009.1	91.01	87.64	81.91	8.76	90.67	60.00	YES
27		A2009.2	91.01	87.82	81.91	8.78	90.69	60.00	YES
28		A2009.3	91.01	87.82	81.91	8.78	90.69	60.00	YES
29		A2009.4	91.01	86.36	81.91	8.64	90.54	60.00	YES
30		A2009.5	91.01	86.36	81.91	8.64	90.54	60.00	YES
31	Computer Programming Lab A2502	A2502.1	90.46	85.82	81.41	8.58	89.99	60.00	YES
32		A2502.2	90.46	84.73	81.41	8.47	89.89	60.00	YES
33		A2502.3	90.46	85.64	81.41	8.56	89.98	60.00	YES

34		A2502.4	90.46	85.45	81.41	8.55	89.96	60.00	YES
35		A2502.5	90.46	85.27	81.41	8.53	89.94	60.00	YES
36		A2502.6	90.46	86.00	81.41	8.60	90.01	60.00	YES
37	IT Workshop A2601	A2601.1	94.31	86.18	84.88	8.62	93.50	60.00	YES
38		A2601.2	94.31	85.64	84.88	8.56	93.44	60.00	YES
39		A2601.3	94.31	86.00	84.88	8.60	93.48	60.00	YES
40		A2601.4	94.31	86.00	84.88	8.60	93.48	60.00	YES
41		A2601.5	94.31	86.18	84.88	8.62	93.50	60.00	YES
ATTAINMENT CALCULATIONS OF COs OF FIRST YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH									
S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
42	Mathematics-II A2006	A2006.1	58.87	86.73	52.98	8.67	61.65	60.00	YES
43		A2006.2	53.83	87.45	48.44	8.75	57.19	60.00	NO
44		A2006.3	61.69	86.55	55.52	8.65	64.18	60.00	YES
45		A2006.4	36.03	85.64	32.43	8.56	40.99	60.00	NO
46		A2006.5	53.12	86.00	47.80	8.60	56.40	60.00	NO
47	Engineering Physics A2002	A2002.1	66.36	85.64	59.72	8.56	68.28	60.00	YES
48		A2002.2	74.75	85.82	67.27	8.58	75.85	60.00	YES
49		A2002.3	64.36	86.18	57.93	8.62	66.55	60.00	YES
50		A2002.4	70.93	83.45	63.84	8.35	72.18	60.00	YES
51		A2002.5	70.73	85.64	63.66	8.56	72.22	60.00	YES
52	Engineering Chemistry A2003	A2003.1	72.73	86.00	65.46	8.60	74.06	60.00	YES
53		A2003.2	73.73	86.55	66.35	8.65	75.01	60.00	YES
54		A2003.3	71.60	87.82	64.44	8.78	73.22	60.00	YES
55		A2003.4	75.31	85.82	67.78	8.58	76.36	60.00	YES

56		A2003.5	63.81	87.45	57.43	8.75	66.18	60.00	YES
57	Electronic Devices and Circuits A2402	A2402.1	59.72	86.18	53.74	8.62	62.36	60.00	YES
58		A2402.2	61.06	87.45	54.95	8.75	63.70	60.00	YES
59		A2402.3	62.66	87.27	56.39	8.73	65.12	60.00	YES
60		A2402.4	60.92	85.45	54.83	8.55	63.38	60.00	YES
61		A2402.5	50.65	85.09	45.59	8.51	54.10	60.00	NO
62	Data Structures through C A2503	A2503.1	67.34	85.27	60.61	8.53	69.13	60.00	YES
63		A2503.2	68.84	85.64	61.96	8.56	70.52	60.00	YES
64		A2503.3	64.94	85.82	58.44	8.58	67.02	60.00	YES
65		A2503.4	66.60	86.18	59.94	8.62	68.56	60.00	YES
66		A2503.5	59.04	86.00	53.14	8.60	61.74	60.00	YES
II SEMESTER - LABORATORY COURSES									
S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
73	Engineering Physics and Engineering Chemistry Lab A2008	A2008.1	97.38	87.27	87.64	8.73	96.37	60.00	YES
74		A2008.2	97.38	86.73	87.64	8.67	96.32	60.00	YES
75		A2008.3	97.38	85.09	87.64	8.51	96.15	60.00	YES
76		A2008.4	97.38	84.73	87.64	8.47	96.12	60.00	YES
77		A2008.5	97.38	86.73	87.64	8.67	96.32	60.00	YES
78		A2008.6	97.38	86.00	87.64	8.60	96.24	60.00	YES
79	Electronic Devices and Circuits Lab A2405	A2405.1	95.11	86.36	85.60	8.64	94.23	60.00	YES
80		A2405.2	95.11	86.73	85.60	8.67	94.27	60.00	YES
81		A2405.3	95.11	86.55	85.60	8.65	94.25	60.00	YES
82		A2405.4	95.11	84.55	85.60	8.45	94.05	60.00	YES
83		A2405.5	95.11	84.55	85.60	8.45	94.05	60.00	YES

84	Data Structures through C Lab A2504	A2504.1	90.47	84.91	81.43	8.49	89.92	60.00	YES
85		A2504.2	90.47	86.91	81.43	8.69	90.12	60.00	YES
86		A2504.3	90.47	86.36	81.43	8.64	90.06	60.00	YES
87		A2504.4	90.47	86.36	81.43	8.64	90.06	60.00	YES
88		A2504.5	90.47	86.00	81.43	8.60	90.03	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH									
S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
III SEMESTER - THEORY COURSES									
1	Managerial Economics And Financial Analysis A2012	A2012.1	60.92	87.57	54.83	8.76	63.58	60.00	YES
2		A2012.2	60.01	84.08	54.01	8.41	62.42	60.00	YES
3		A2012.3	58.05	85.83	52.25	8.58	60.83	60.00	YES
4		A2012.4	60.42	85.44	54.38	8.54	62.92	60.00	YES
5		A2012.5	68.17	85.44	61.35	8.54	69.90	60.00	YES
6		A2012.6	39.30	85.83	35.37	8.58	43.95	60.00	NO
7	Discrete Mathematical Structures A2505	A2505.1	62.39	80.97	56.15	8.10	64.25	60.00	YES
8		A2505.2	60.93	80.39	54.83	8.04	62.87	60.00	YES
9		A2505.3	60.68	83.30	54.61	8.33	62.94	60.00	YES
10		A2505.4	61.17	86.21	55.05	8.62	63.67	60.00	YES
11		A2505.5	52.81	87.77	47.53	8.78	56.30	60.00	NO
12	Digital Logic Design A2406	A2406.1	60.90	83.50	54.81	8.35	63.16	60.00	YES
13		A2406.2	61.09	81.75	54.98	8.17	63.16	60.00	YES
14		A2406.3	60.77	82.72	54.69	8.27	62.97	60.00	YES
15		A2406.4	61.39	87.38	55.25	8.74	63.99	60.00	YES
16		A2406.5	61.62	86.99	55.45	8.70	64.15	60.00	YES
17	Operating	A2506.1	61.77	88.16	55.59	8.82	64.41	60.00	YES

18	Systems A2506	A2506.2	60.58	85.83	54.52	8.58	63.10	60.00	YES
19		A2506.3	58.31	87.77	52.48	8.78	61.26	60.00	YES
20		A2506.4	62.08	86.02	55.87	8.60	64.47	60.00	YES
21		A2506.5	66.61	86.02	59.95	8.60	68.55	60.00	YES
22	Computer Architecture and Organization A2510	A2510.1	59.34	85.24	53.41	8.52	61.93	60.00	YES
23		A2510.2	65.08	85.44	58.57	8.54	67.12	60.00	YES
24		A2510.3	62.59	84.47	56.33	8.45	64.77	60.00	YES
25		A2510.4	60.20	83.30	54.18	8.33	62.51	60.00	YES
26		A2510.5	60.67	84.08	54.60	8.41	63.01	60.00	YES
27	Object Oriented Programming through JAVA A2508	A2508.1	64.64	88.54	58.18	8.85	67.03	60.00	YES
28		A2508.2	50.24	87.18	45.21	8.72	53.93	60.00	NO
29		A2508.3	61.17	86.41	55.06	8.64	63.70	60.00	YES
30		A2508.4	64.83	85.05	58.35	8.50	66.85	60.00	YES
31		A2508.5	61.41	84.08	55.27	8.41	63.67	60.00	YES
32		A2508.6	67.90	85.63	61.11	8.56	69.68	60.00	YES

III SEMESTER - LABORATORY COURSES

S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
33	JAVA Programming Lab A2509	A2509.1	93.54	88.54	84.19	8.85	93.04	60.00	YES
34		A2509.2	93.54	87.57	84.19	8.76	92.94	60.00	YES
35		A2509.3	93.54	85.83	84.19	8.58	92.77	60.00	YES
36		A2509.4	93.54	86.02	84.19	8.60	92.79	60.00	YES
37		A2509.5	93.54	84.85	84.19	8.49	92.67	60.00	YES
38	Computer Aided Engineering Drawing Lab A2306	A2306.1	96.30	86.99	86.67	8.70	95.37	60.00	YES
39		A2306.2	96.30	85.05	86.67	8.50	95.17	60.00	YES
40		A2306.3	96.30	86.02	86.67	8.60	95.27	60.00	YES
41		A2306.4	96.30	86.41	86.67	8.64	95.31	60.00	YES
42		A2306.5	96.30	85.83	86.67	8.58	95.25	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
43	Environmental Science A2011	A2011.1	77.09	90.87	69.38	9.09	78.47	60.00	YES
44		A2011.2	72.07	89.71	64.86	8.97	73.83	60.00	YES
45		A2011.3	71.05	88.93	63.95	8.89	72.84	60.00	YES
46		A2011.4	78.34	88.16	70.51	8.82	79.32	60.00	YES
47		A2011.5	74.18	87.38	66.76	8.74	75.50	60.00	YES
48		A2011.6	77.53	87.18	69.78	8.72	78.49	60.00	YES
49	Design and Analysis of Algorithms A2507	A2507.1	60.60	87.77	54.54	8.78	63.32	60.00	YES
50		A2507.2	61.06	86.60	54.96	8.66	63.62	60.00	YES
51		A2507.3	57.27	87.18	51.54	8.72	60.26	60.00	YES
52		A2507.4	70.02	84.85	63.01	8.49	71.50	60.00	YES
53		A2507.5	53.43	87.57	48.08	8.76	56.84	60.00	NO
54		A2507.6	55.29	87.77	49.76	8.78	58.54	60.00	NO
55	Formal Languages and Automata Theory A2511	A2511.1	60.13	87.96	54.12	8.80	62.92	60.00	YES
56		A2511.2	60.11	88.35	54.10	8.83	62.93	60.00	YES
57		A2511.3	64.67	87.38	58.20	8.74	66.94	60.00	YES
58		A2511.4	67.53	84.85	60.77	8.49	69.26	60.00	YES
59		A2511.5	59.09	86.60	53.18	8.66	61.84	60.00	YES
60	Software Engineering A2512	A2512.1	65.90	86.21	59.31	8.62	67.93	60.00	YES
61		A2512.2	62.07	87.57	55.86	8.76	64.62	60.00	YES
62		A2512.3	60.12	86.80	54.11	8.68	62.79	60.00	YES
63		A2512.4	64.17	84.85	57.76	8.49	66.24	60.00	YES
64		A2512.5	30.16	84.47	27.14	8.45	35.59	60.00	NO
65	Unix Programming A2513	A2513.1	56.48	85.05	50.83	8.50	59.33	60.00	NO
66		A2513.2	68.89	85.83	62.01	8.58	70.59	60.00	YES
67		A2513.3	68.45	86.41	61.61	8.64	70.25	60.00	YES
68		A2513.4	63.74	86.80	57.36	8.68	66.04	60.00	YES
69		A2513.5	64.24	87.38	57.81	8.74	66.55	60.00	YES
70	Database Management	A2514.1	65.73	85.63	59.16	8.56	67.72	60.00	YES
71		A2514.2	65.82	84.85	59.24	8.49	67.73	60.00	YES

72	Systems A2514	A2514.3	33.29	86.21	29.96	8.62	38.58	60.00	NO
73		A2514.4	71.98	87.18	64.78	8.72	73.50	60.00	YES
74		A2514.5	73.98	87.18	66.58	8.72	75.30	60.00	YES
75		A2514.6	77.73	86.60	69.96	8.66	78.62	60.00	YES
IV SEMESTER - LABORATORY COURSES									
S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
76	Unix Programming Lab A2515	A2515.1	86.67	89.51	78.00	8.95	86.95	60.00	YES
77		A2515.2	86.67	89.32	78.00	8.93	86.93	60.00	YES
78		A2515.3	86.67	87.18	78.00	8.72	86.72	60.00	YES
79		A2515.4	86.67	87.18	78.00	8.72	86.72	60.00	YES
80		A2515.5	86.67	87.18	78.00	8.72	86.72	60.00	YES
81	Database Management Systems Lab A2516	A2516.1	85.45	86.41	76.91	8.64	85.55	60.00	YES
82		A2516.2	85.45	88.54	76.91	8.85	85.76	60.00	YES
83		A2516.3	85.45	88.16	76.91	8.82	85.72	60.00	YES
84		A2516.4	85.45	85.44	76.91	8.54	85.45	60.00	YES
85		A2516.5	85.45	84.66	76.91	8.47	85.37	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF THIRD YEAR COURSES THROUGH DA & IDA FOR

2014-2018 BATCH

S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
V SEMESTER - THEORY COURSES									
1	Microprocessors and Interfacing A2419	A2419.1	66.62	87.95	59.96	8.80	68.76	60.00	YES
2		A2419.2	64.90	87.27	58.41	8.73	67.13	60.00	YES
3		A2419.3	60.70	85.68	54.63	8.57	63.20	60.00	YES
4		A2419.4	52.57	87.27	47.31	8.73	56.04	60.00	NO
5		A2419.5	61.50	87.27	55.35	8.73	64.08	60.00	YES
6	Compiler Design A2517	A2517.1	58.29	84.09	52.46	8.41	60.87	60.00	YES
7		A2517.2	63.69	85.68	57.32	8.57	65.89	60.00	YES
8		A2517.3	61.79	85.23	55.61	8.52	64.13	60.00	YES
9		A2517.4	60.31	85.91	54.28	8.59	62.87	60.00	YES
10		A2517.5	48.52	85.23	43.67	8.52	52.19	60.00	NO
11	Computer Networks A2602	A2602.1	60.99	83.86	54.89	8.39	63.27	60.00	YES
12		A2602.2	60.54	87.05	54.48	8.70	63.19	60.00	YES
13		A2602.3	60.02	86.14	54.02	8.61	62.64	60.00	YES
14		A2602.4	57.49	83.64	51.74	8.36	60.11	60.00	YES
15		A2602.5	57.49	84.77	51.74	8.48	60.22	60.00	YES
16		A2602.6	60.99	85.00	54.89	8.50	63.39	60.00	YES
17	Web Technologies A2603	A2603.1	60.19	85.91	54.17	8.59	62.76	60.00	YES
18		A2603.2	61.13	84.09	55.01	8.41	63.42	60.00	YES
19		A2603.3	61.15	86.59	55.03	8.66	63.69	60.00	YES
20		A2603.4	60.15	87.27	54.14	8.73	62.86	60.00	YES
21		A2603.5	62.76	85.68	56.49	8.57	65.06	60.00	YES
22	Mobile Application Development A2604	A2604.1	74.13	86.82	66.71	8.68	75.39	60.00	YES
23		A2604.2	65.54	86.36	58.99	8.64	67.62	60.00	YES
24		A2604.3	60.02	85.45	54.02	8.55	62.56	60.00	YES
25		A2604.4	60.12	85.45	54.11	8.55	62.65	60.00	YES
26		A2604.5	62.37	85.45	56.13	8.55	64.68	60.00	YES
27		A2604.6	61.94	86.36	55.75	8.64	64.38	60.00	YES
28	Wireless and Mobile Computing A2605	A2605.1	71.71	85.23	64.54	8.52	73.07	60.00	YES
29		A2605.2	60.46	86.36	54.41	8.64	63.05	60.00	YES

30		A2605.3	59.92	84.77	53.93	8.48	62.40	60.00	YES
31		A2605.4	61.48	85.45	55.33	8.55	63.88	60.00	YES
32		A2605.5	60.46	84.09	54.42	8.41	62.83	60.00	YES
33		A2605.6	61.16	85.91	55.05	8.59	63.64	60.00	YES

V SEMESTER - LABORATORY COURSES

S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
34	Microprocessors and Interfacing Lab A2424	A2424.1	100.00	87.50	90.00	8.75	98.75	60.00	YES
35		A2424.2	100.00	87.05	90.00	8.70	98.70	60.00	YES
36		A2424.3	100.00	87.27	90.00	8.73	98.73	60.00	YES
37		A2424.4	100.00	88.18	90.00	8.82	98.82	60.00	YES
38	Web Technologies Lab A2606	A2606.1	90.37	86.36	81.33	8.64	89.97	60.00	YES
39		A2606.2	90.37	84.55	81.33	8.45	89.79	60.00	YES
40		A2606.3	90.37	85.45	81.33	8.55	89.88	60.00	YES
41		A2606.4	90.37	86.14	81.33	8.61	89.95	60.00	YES
42		A2606.5	90.37	85.00	81.33	8.50	89.83	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF THIRD YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
43	Embedded Systems A2425	A2425.1	47.70	83.86	42.93	8.39	51.32	60.00	NO
44		A2425.2	57.39	86.82	51.65	8.68	60.33	60.00	YES
45		A2425.3	54.09	86.36	48.68	8.64	57.32	60.00	NO
46		A2425.4	66.44	86.14	59.80	8.61	68.41	60.00	YES
47		A2425.5	61.06	85.91	54.95	8.59	63.54	60.00	YES
48		A2425.6	69.29	86.14	62.36	8.61	70.97	60.00	YES
49	Object Oriented Analysis and Design A2520	A2520.1	64.05	86.14	57.64	8.61	66.26	60.00	YES
50		A2520.2	67.09	84.55	60.38	8.45	68.84	60.00	YES

51		A2520.3	69.83	86.36	62.85	8.64	71.48	60.00	YES
52		A2520.4	70.77	83.41	63.69	8.34	72.03	60.00	YES
53		A2520.5	71.28	84.77	64.15	8.48	72.63	60.00	YES
54	Data Ware Housing and Data Mining A2523	A2523.1	67.19	87.27	60.47	8.73	69.20	60.00	YES
55		A2523.2	56.79	85.00	51.11	8.50	59.61	60.00	NO
56		A2523.3	60.10	85.23	54.09	8.52	62.62	60.00	YES
57		A2523.4	60.76	85.23	54.69	8.52	63.21	60.00	YES
58		A2523.5	60.64	85.91	54.58	8.59	63.17	60.00	YES
59	Network Security and Cryptography A2607	A2607.1	74.37	84.77	66.94	8.48	75.41	60.00	YES
60		A2607.2	60.00	85.00	54.00	8.50	62.50	60.00	YES
61		A2607.3	62.71	85.68	56.44	8.57	65.01	60.00	YES
62		A2607.4	51.68	86.36	46.51	8.64	55.15	60.00	NO
63		A2607.5	61.53	86.36	55.38	8.64	64.01	60.00	YES
64		A2607.6	60.34	85.91	54.31	8.59	62.90	60.00	YES
65	Open Source Technologies A2608	A2608.1	73.86	84.32	66.47	8.43	74.90	60.00	YES
66		A2608.2	76.28	84.55	68.65	8.45	77.10	60.00	YES
67		A2608.3	66.74	85.45	60.06	8.55	68.61	60.00	YES
68		A2608.4	66.66	84.55	59.99	8.45	68.45	60.00	YES
69		A2608.5	35.31	86.36	31.78	8.64	40.41	60.00	NO
70	Entrepreneurship A2017	A2017.1	81.63	84.55	73.47	8.45	81.92	60.00	YES
71		A2017.2	82.61	83.64	74.35	8.36	82.71	60.00	YES
72		A2017.3	84.18	84.77	75.76	8.48	84.24	60.00	YES
73		A2017.4	84.21	84.55	75.79	8.45	84.25	60.00	YES
74		A2017.5	83.95	86.36	75.56	8.64	84.20	60.00	YES
VI SEMESTER - LABORATORY COURSES									
S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
75	Open Source Technologies Lab A2609	A2609.1	96.63	88.86	86.97	8.89	95.85	60.00	YES
76		A2609.2	96.63	88.64	86.97	8.86	95.83	60.00	YES
77		A2609.3	96.63	86.59	86.97	8.66	95.63	60.00	YES

78		A2609.4	96.63	87.27	86.97	8.73	95.70	60.00	YES
79		A2609.5	96.63	88.64	86.97	8.86	95.83	60.00	YES
80	Case tools and Data Mining Lab A2610	A2610.1	96.63	88.86	86.97	8.89	95.85	60.00	YES
81		A2610.2	96.63	87.05	86.97	8.70	95.67	60.00	YES
82		A2610.3	96.63	87.95	86.97	8.80	95.76	60.00	YES
83		A2610.4	96.63	87.73	86.97	8.77	95.74	60.00	YES
84		A2610.5	96.63	86.14	86.97	8.61	95.58	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
VII SEMESTER - THEORY COURSES									
1	Software Project Management A2522	A2522.1	64.80	89.65	58.32	8.96	67.29	60.00	YES
2		A2522.2	71.23	89.18	64.11	8.92	73.03	60.00	YES
3		A2522.3	72.09	87.76	64.88	8.78	73.66	60.00	YES
4		A2522.4	76.25	88.71	68.63	8.87	77.50	60.00	YES
5	Cloud Computing A2611	A2611.1	62.36	88.47	56.12	8.85	64.97	60.00	YES
6		A2611.2	57.96	86.12	52.16	8.61	60.77	60.00	YES
7		A2611.3	62.37	86.82	56.13	8.68	64.82	60.00	YES
8		A2611.4	62.42	86.35	56.18	8.64	64.82	60.00	YES
9		A2611.5	65.60	86.82	59.04	8.68	67.72	60.00	YES
10	Cyber Security A2612	A2612.1	60.03	85.41	54.03	8.54	62.57	60.00	YES
11		A2612.2	63.32	85.65	56.99	8.56	65.55	60.00	YES
12		A2612.3	60.82	88.24	54.74	8.82	63.56	60.00	YES
13		A2612.4	60.37	87.29	54.34	8.73	63.06	60.00	YES
14		A2612.5	46.26	85.65	41.63	8.56	50.20	60.00	NO
15	Software Testing and Quality Assurance A2613	A2613.1	59.91	86.35	53.92	8.64	62.55	60.00	YES
16		A2613.2	64.35	86.59	57.92	8.66	66.58	60.00	YES

17		A2613.3	54.82	87.76	49.34	8.78	58.12	60.00	NO
18		A2613.4	69.86	86.12	62.87	8.61	71.48	60.00	YES
19		A2613.5	64.10	86.82	57.69	8.68	66.37	60.00	YES
20	Distributed Databases A2532	A2532.1	41.03	87.76	36.93	8.78	45.70	60.00	NO
21		A2532.2	77.07	85.88	69.36	8.59	77.95	60.00	YES
22		A2532.3	79.29	87.76	71.36	8.78	80.13	60.00	YES
23		A2532.4	71.83	86.59	64.65	8.66	73.31	60.00	YES
24		A2532.5	65.79	86.35	59.21	8.64	67.85	60.00	YES
25		A2532.6	78.87	86.35	70.98	8.64	79.61	60.00	YES
26	Distributed Operating Systems A2527	A2527.1	81.93	86.35	73.73	8.64	82.37	60.00	YES
27		A2527.2	78.76	87.29	70.88	8.73	79.61	60.00	YES
28		A2527.3	83.74	85.41	75.37	8.54	83.91	60.00	YES
29		A2527.4	80.57	87.29	72.51	8.73	81.24	60.00	YES
30		A2527.5	79.58	85.65	71.62	8.56	80.18	60.00	YES
31	A2527.6	79.88	85.65	71.89	8.56	80.46	60.00	YES	
32	Computer Graphics A2614	A2614.1	74.66	84.94	67.20	8.49	75.69	60.00	YES
33		A2614.2	66.60	86.82	59.94	8.68	68.62	60.00	YES
34		A2614.3	57.46	86.82	51.72	8.68	60.40	60.00	YES
35		A2614.4	62.47	87.29	56.22	8.73	64.95	60.00	YES
36		A2614.5	60.78	87.29	54.70	8.73	63.43	60.00	YES
37	A2614.6	72.83	87.29	65.55	8.73	74.28	60.00	YES	

VII SEMESTER - LABORATORY COURSES

S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
38	Cloud Computing Lab A2618	99.38	99.38	87.76	89.44	8.78	98.21	60.00	YES
39		99.38	99.38	88.00	89.44	8.80	98.24	60.00	YES
40		99.38	99.38	88.24	89.44	8.82	98.26	60.00	YES
41		99.38	99.38	89.18	89.44	8.92	98.36	60.00	YES
42		99.38	99.38	87.29	89.44	8.73	98.17	60.00	YES
43	Software Testing and Quality Assurance Lab A2619	98.96	98.96	86.12	89.06	8.61	97.67	60.00	YES
44		98.96	98.96	86.35	89.06	8.64	97.70	60.00	YES

45	Mini Project A2620	98.96	98.96	87.06	89.06	8.71	97.77	60.00	YES
46		98.96	98.96	86.59	89.06	8.66	97.72	60.00	YES
47		100.00	100.00	86.59	90.00	8.66	98.66	60.00	YES
48		100.00	100.00	86.59	90.00	8.66	98.66	60.00	YES
49		100.00	100.00	86.82	90.00	8.68	98.68	60.00	YES
50		100.00	100.00	86.59	90.00	8.66	98.66	60.00	YES
51		100.00	100.00	86.82	90.00	8.68	98.68	60.00	YES
52		100.00	100.00	85.41	90.00	8.54	98.54	60.00	YES
ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH									
S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
53	Professional Ethics and Intellectual Property Rights A2015	A2015.1	74.22	86.12	66.79	8.61	75.41	60.00	YES
54		A2015.2	68.12	87.76	61.31	8.78	70.08	60.00	YES
55		A2015.3	74.13	86.59	66.72	8.66	75.38	60.00	YES
56		A2015.4	81.08	87.06	72.97	8.71	81.67	60.00	YES
57		A2015.5	82.55	86.59	74.29	8.66	82.95	60.00	YES
58	Human Computer Interaction A2624	A2624.1	79.49	87.53	71.54	8.75	80.30	60.00	YES
59		A2624.2	85.83	86.82	77.25	8.68	85.93	60.00	YES
60		A2624.3	85.74	86.59	77.16	8.66	85.82	60.00	YES
61		A2624.4	81.78	86.59	73.60	8.66	82.26	60.00	YES
62		A2624.5	85.59	83.76	77.03	8.38	85.41	60.00	YES
63	Information Retrieval Systems A2626	A2626.1	79.07	85.88	71.16	8.59	79.75	60.00	YES
64		A2626.2	78.11	87.76	70.30	8.78	79.07	60.00	YES
65		A2626.3	73.70	85.65	66.33	8.56	74.90	60.00	YES
66		A2626.4	80.70	86.35	72.63	8.64	81.27	60.00	YES
67		A2626.5	76.72	86.82	69.05	8.68	77.73	60.00	YES
68	Semantic Web and Social Networks A2627	A2627.1	72.19	86.12	64.97	8.61	73.58	60.00	YES
69		A2627.2	65.49	85.65	58.94	8.56	67.51	60.00	YES
70		A2627.3	67.38	85.88	60.64	8.59	69.23	60.00	YES

71		A2627.4	51.95	86.59	46.75	8.66	55.41	60.00	NO
72		A2627.5	43.37	87.29	39.03	8.73	47.76	60.00	NO
VIII SEMESTER - LABORATORY COURSES									
S.No.	Course Name & Code	CO#	Total CO AT through DA in %	Total CO AT through IDA in %	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
73	Industry Oriented Design Lab A2537	A2537.1	98.96	89.65	89.06	8.96	98.03	60.00	YES
74		A2537.2	98.96	89.18	89.06	8.92	97.98	60.00	YES
75		A2537.3	98.96	88.00	89.06	8.80	97.86	60.00	YES
76		A2537.4	98.96	87.76	89.06	8.78	97.84	60.00	YES
77		A2537.5	98.96	88.71	89.06	8.87	97.93	60.00	YES
78	Technical Seminar A2631	A2631.1	100.00	89.65	90.00	8.96	98.96	60.00	YES
79		A2631.2	100.00	89.41	90.00	8.94	98.94	60.00	YES
80		A2631.3	100.00	88.71	90.00	8.87	98.87	60.00	YES
81		A2631.4	100.00	88.94	90.00	8.89	98.89	60.00	YES
82		A2631.5	100.00	87.29	90.00	8.73	98.73	60.00	YES
83	Comprehensive Viva A2632	A2632.1	100.00	89.18	90.00	8.92	98.92	60.00	YES
84		A2632.2	100.00	88.94	90.00	8.89	98.89	60.00	YES
85		A2632.3	100.00	88.47	90.00	8.85	98.85	60.00	YES
86		A2632.4	100.00	89.18	90.00	8.92	98.92	60.00	YES
87		A2632.5	100.00	88.47	90.00	8.85	98.85	60.00	YES
88	Project WorkA2633	A2633.1	100.00	89.41	90.00	8.94	98.94	60.00	YES
89		A2633.2	100.00	89.18	90.00	8.92	98.92	60.00	YES
90		A2633.3	100.00	89.65	90.00	8.96	98.96	60.00	YES
91		A2633.4	100.00	88.94	90.00	8.89	98.89	60.00	YES
92		A2633.5	100.00	88.24	90.00	8.82	98.82	60.00	YES
93		A2633.6	100.00	88.24	90.00	8.82	98.82	60.00	YES

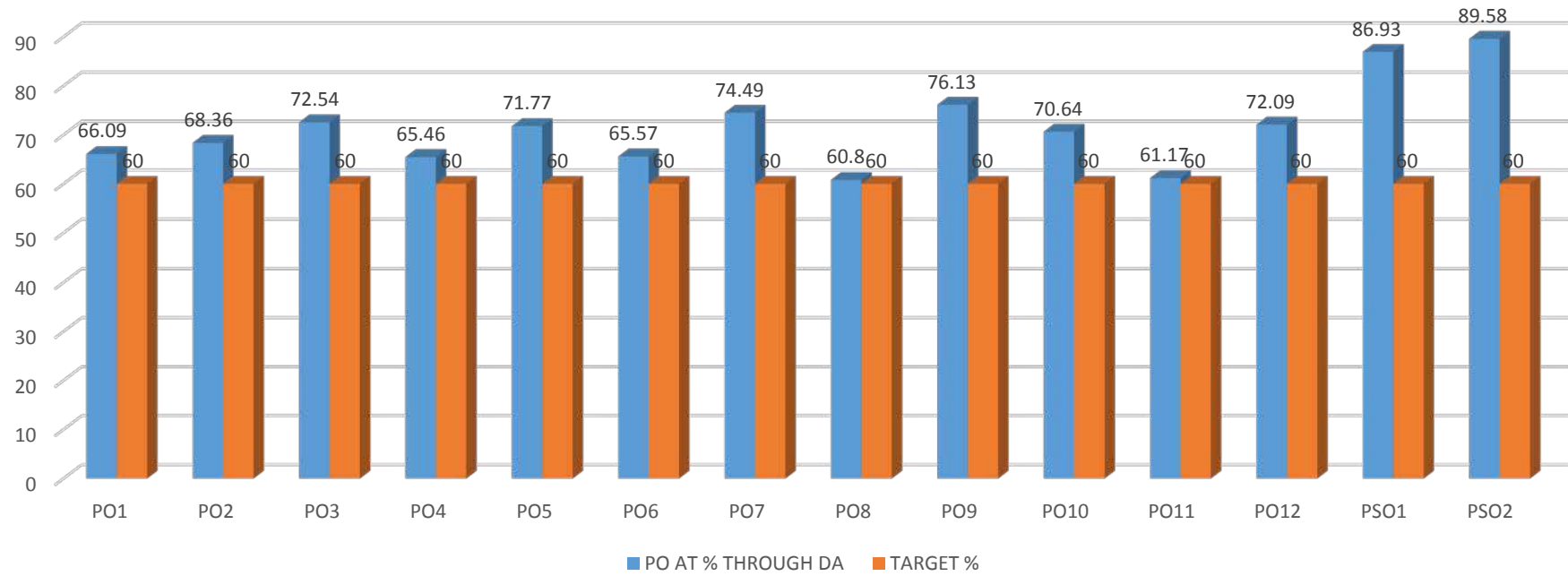
15	Unix Programming Lab	A2515	92.47	92.47	92.47		92.47									
16	Database Management Systems Lab	A2516	68.84	68.84	68.84		68.84									
PO AT in % after II Year			58.95	60.20	67.68	53.56	63.71	59.42			89.49		38.89			
III Year Courses																
1	Microprocessors and Interfacing	A2419	58.28	53.75	55.57											
2	Compiler Design	A2517	25.52	44.58	44.76	40.98	56.37									
3	Computer Networks	A2602	21.69	18.52		18.52	18.52									
4	Web Technologies	A2603			46.75		58.81									
5	Mobile Application Development	A2604	60.76	62.09	59.79	48.27	54.14	52.04	52.04							
6	Wireless and Mobile Computing	A2605	57.11					36.35	45.26	36.25	50.49	30.14	42.57	30.14		
7	Microprocessors and Interfacing Lab	A2424				98.93	99.06									
8	Web Technologies Lab	A2606			85.3		85.3									
9	Embedded Systems	A2425	47.72		49.05	41.1	66.69	55.63			54.34	61.31	62.97	88.86		
10	Object Oriented Analysis and Design	A2520	70.81	64.3	69.5		67.32						71.53	69.56		
11	Data Mining and Data Warehousing	A2523	66.05	56.79	51.41		55.54			54.85			53.82			
12	Network Security and Cryptography	A2607	62.14	61.01		62.31	62.42									
13	Open Source Technologies	A2608			71.93		77.56									
14	Entrepreneurship	A2017						65.51	66.93		65.51					
15	Open Source Technologies Lab	A2609			93.16		93.16									
16	Case Tools and Data Mining Lab	A2610	92.85	92.85	92.85		92.85						92.85			
PO AT in % after III Year			56.29	56.74	65.46	51.69	68.29	52.38	54.74	45.55	56.78	45.73	64.75	62.8		

IV Year Courses															
1	Software Project Management	A2522	65.3	73.74	72.59		76.75				71.73		76.75		
2	Cloud Computing	A2611	46.15		56.4		61.15	60.73		61.22			56.65	61.22	56.65
3	Cyber Security	A2612	51.45	48.92		48.65	56.08								
4	Software Testing and Quality Assurance	A2613	62.83	64.6	55.32	63.19	64.35								
5	Distributed Databases	A2532		78.72	77.15	80.81								79.97	74.2
6	Distributed Operating Systems	A2527		64.38	64.67	65.63								65.1	
7	Computer Graphics	A2614	74		63.409		61.32								
8	Cloud Computing Lab	A2618	88.59	88.59	88.59		88.59	88.59	88.59	88.59			88.59	88.59	
9	Software Testing and Quality Assurance Lab	A2619		97.78	97.78	97.78	97.78								
10	Mini Project	A2620	99	98.7	98.85	99.1	98.5				98.5			98.6	98.6
11	Professional Ethics and Intellectual Property Rights	A2015						78.31		78.31					
12	Human Computer Interaction	A2624		83.94	84.88									83.94	
13	Information Retrieval Systems	A2626	36.98	80.95	76.97	77.07	80.95							76.97	
14	Semantic Web and Social Networks	A2627													
15	Industry Oriented Design Lab	A2537		98	98.11		97.74		97.76		97.58		97.46	97.46	98.14
16	Technical Seminar	A2631	100	100	100	100	100					100		100	100
17	Comprehensive Viva	A2632	100	100	100	100	100					100		100	100
18	Project Work	A2633	100	100	100	100	100				100	100		100	100
PO AT in % after IV year			74.94	84.17	82.31	83.22	83.32	75.88	93.18	76.04	91.95	100.00	79.86	87.1	86.93
													4		
TOTAL PO&PSO DIRECT ATTAINMENTS IN %			66.09	68.36	72.54	65.46	71.77	65.57	74.49	60.80	76.13	70.64	61.17	72.09	86.93

Summary of POs & PSOs Attainments through Direct Assessment

PO #	PO AT% THROUGH DA	TARGET %	ATTAINED (YES/NO)
P01	66.09	60.00	YES
P02	68.36	60.00	YES
P03	72.54	60.00	YES
P04	65.46	60.00	YES
P05	71.77	60.00	YES
P06	65.57	60.00	YES
P07	74.49	60.00	YES
P08	60.80	60.00	YES
P09	76.13	60.00	YES
P010	70.64	60.00	YES
P011	61.17	60.00	YES
P012	72.09	60.00	YES
PS01	86.93	60.00	YES
PS02	89.58	60.00	YES

POs and PSOs ATTAINMENTS THROUGH DIRECT ASSESSMENT



Complete PO & PSO attainments through direct Assessment

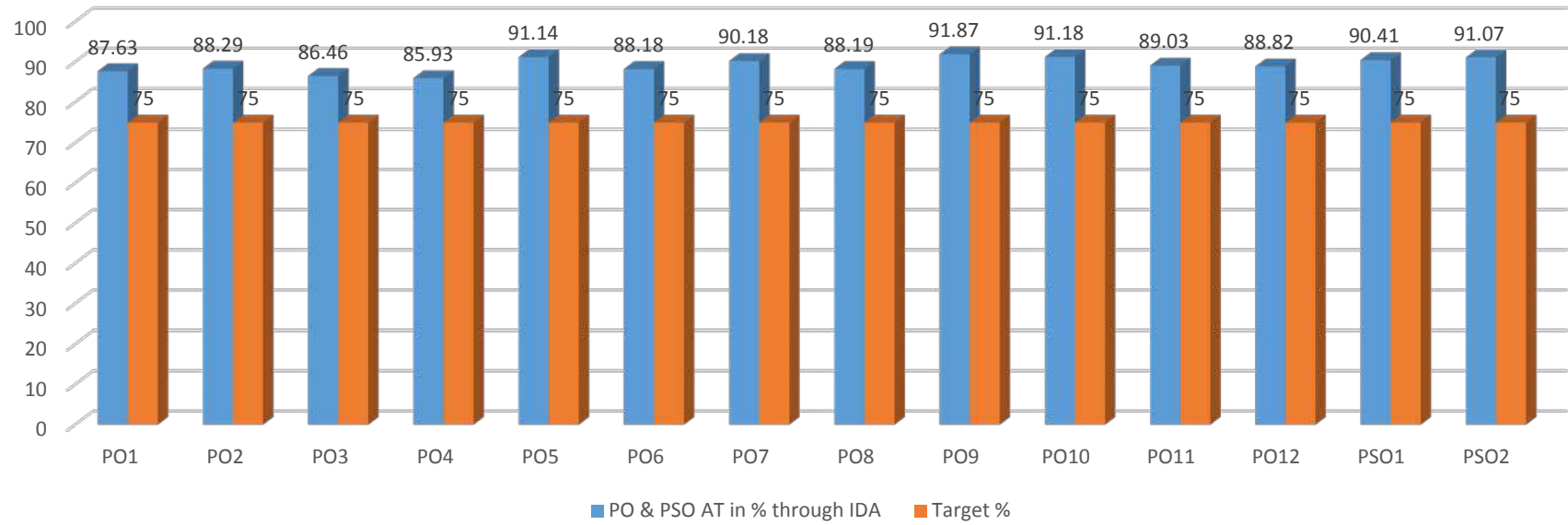
COMPLETE PO & PSO ATTAINMENTS THROUGH INDIRECT ASSESSMENT*Complete PO & PSO attainments through indirect Assessment*

S. NO	SURVEY	PO&PSO AT Through IDA in %													
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	Student Exit Survey	87.63	88.29	86.46	86.21	89.77	86.50	89.95	85.52	88.81	86.38	86.40	90.24	91.25	91.98
2	Co-Curricular Activities				85.65	92.50	85.80	91.25		94.56	92.50		87.88	89.56	90.15
3	Extra-Curricular Activities						92.25	89.35	90.87	92.25	94.65	91.65	88.33		
Total PO & PSO Attainment in % Through Indirect Assessment		87.63	88.29	86.46	85.93	91.14	88.18	90.18	88.19	91.87	91.18	89.03	88.82	90.41	91.07

Summary Attainment of all POs & PSOs of the program through Indirect Attainment:

PO #	PO & PSO AT% Through In Direct Attainment	TARGET %	ATTAINED (YES/NO)
PO1	87.63	75.00	YES
PO2	88.29	75.00	YES
PO3	86.46	75.00	YES
PO4	85.93	75.00	YES
PO5	91.14	75.00	YES
PO6	88.18	75.00	YES
PO7	90.18	75.00	YES
PO8	88.19	75.00	YES
PO9	91.87	75.00	YES
PO10	91.18	75.00	YES
PO11	89.03	75.00	YES
PO12	88.82	75.00	YES
PSO1	90.41	75.00	YES
PSO2	91.07	75.00	YES

PO & PSO ATTAINMENT THROUGH INDIRECT ASSESSMENT

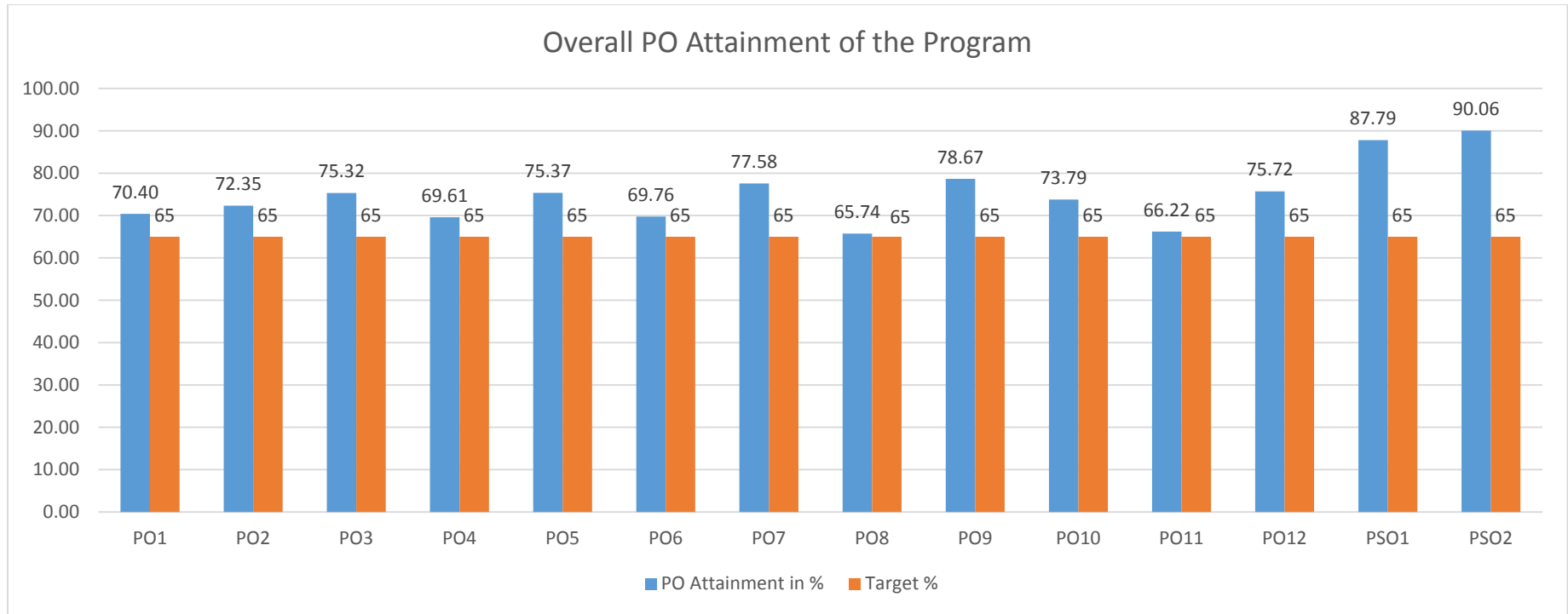


Complete PO & PSO attainments through indirect Assessment

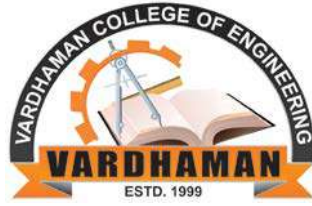
Overall PO Attainment:

PO Attainment through In Direct Assessment

Attainment through Direct Assessment	Attainment through Direct Assessment	Attainment through In Direct Assessment	Attainment through In Direct Assessment	Overall Attainment	Target	Attained
-100%	-80%	-100%	-20%	-100%		(YES/NO)
66.09	52.87	87.63	17.53	70.40	65	YES
68.36	54.69	88.29	17.66	72.35	65	YES
72.54	58.03	86.46	17.29	75.32	65	YES
65.46	52.37	86.21	17.24	69.61	65	YES
71.77	57.42	89.77	17.95	75.37	65	YES
65.57	52.46	86.5	17.30	69.76	65	YES
74.49	59.59	89.95	17.99	77.58	65	YES
60.8	48.64	85.52	17.10	65.74	65	YES
76.13	60.90	88.81	17.76	78.67	65	YES
70.64	56.51	86.38	17.28	73.79	65	YES
61.17	48.94	86.4	17.28	66.22	65	YES
72.09	57.67	90.24	18.05	75.72	65	YES
86.93	69.54	91.25	18.25	87.79	65	YES
89.58	71.66	91.98	18.40	90.06	65	YES



Complete PO & PSO attainments of the Program



Attainment of Course Outcomes, Program Outcomes and Program Specific Outcomes

DEPARTMENT OF
MECHANICAL ENGINEERING

VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD
An autonomous institute, affiliated to JNTUH

CO Attainments of courses through CIE and Semester End Examinations

First Year Courses

ATTAINMENT CALCULATIONS OF COs OF FIRST YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH																
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
I SEMESTER - THEORY COURSES																
1	MATHEMATICS-I	A2001.1	77.97		59.65	30.09	38.98	8.95	4.51	65.55	75.00	52.44	15.00	69.74	60.00	YES
2		A2001.2	83.50		59.65	30.09	41.75	8.95	4.51	69.01	75.00	55.21	15.00	71.93	60.00	YES
3		A2001.3		72.74	59.65	30.09	36.37	8.95	4.51	62.29	75.00	49.83	15.00	67.42	60.00	YES
4		A2001.4		53.68	59.65	30.09	26.84	8.95	4.51	50.38	75.00	40.30	15.00	59.48	60.00	NO
5		A2001.5		82.86	59.65	30.09	41.43	8.95	4.51	68.61	75.00	54.89	15.00	71.72	60.00	YES
6	ENGINEERING PHYSICS	A2002.1	67.14		76.52	43.48	33.57	11.48	6.52	64.46	85.84	51.57	17.17	70.58	60.00	YES
7		A2002.2	45.35		76.52	43.48	22.67	11.48	6.52	50.84	85.84	40.67	17.17	60.98	60.00	YES
8		A2002.3		56.40	76.52	43.48	28.20	11.48	6.52	57.75	85.84	46.20	17.17	66.14	60.00	YES
9		A2002.4		92.52	76.52	43.48	46.26	11.48	6.52	80.33	85.84	64.26	17.17	82.18	60.00	YES
10		A2002.5		70.80	76.52	43.48	35.40	11.48	6.52	66.75	85.84	53.40	17.17	72.80	60.00	YES
11	ENGINEERING CHEMISTRY	A2003.1	56.33		70.80	52.17	28.16	10.62	7.83	58.26	84.21	46.61	16.84	66.06	60.00	YES
12		A2003.2	84.68		70.80	52.17	42.34	10.62	7.83	75.98	84.21	60.78	16.84	78.39	60.00	YES
13		A2003.3	59.05		70.80	52.17	29.53	10.62	7.83	59.96	84.21	47.97	16.84	67.40	60.00	YES
14		A2003.4		63.78	70.80	52.17	31.89	10.62	7.83	62.92	84.21	50.34	16.84	69.58	60.00	YES
15		A2003.5		75.46	70.80	52.17	37.73	10.62	7.83	70.22	84.21	56.18	16.84	74.87	60.00	YES
16	COMPUTER PROGRAMMING	A2501.1	63.64		48.28	28.32	31.82	7.24	4.25	54.14	60.00	43.31	12.00	59.44	60.00	NO
17		A2501.2	49.92		48.28	28.32	24.96	7.24	4.25	45.56	60.00	36.45	12.00	52.55	60.00	NO
18		A2501.3	22.43	75.11	48.28	28.32	24.39	7.24	4.25	44.84	60.00	35.87	12.00	51.88	60.00	NO
19		A2501.4	31.52	41.27	48.28	28.32	18.20	7.24	4.25	37.11	60.00	29.69	12.00	46.79	60.00	NO
20		A2501.5		46.62	48.28	28.32	23.31	7.24	4.25	43.50	60.00	34.80	12.00	51.47	60.00	NO
21	ENGINEERING MECHANICS-I	A2301.1	68.24		76.79	10.43	34.12	11.52	1.57	59.00	74.11	47.20	14.82	64.49	60.00	YES
22		A2301.2	46.75		76.79	10.43	23.37	11.52	1.57	45.57	74.11	36.46	14.82	55.19	60.00	NO
23		A2301.3		65.60	76.79	10.43	32.80	11.52	1.57	57.35	74.11	45.88	14.82	63.11	60.00	YES
24		A2301.4		91.44	76.79	10.43	45.72	11.52	1.57	73.50	74.11	58.80	14.82	74.93	60.00	YES
25		A2301.5		67.03	76.79	10.43	33.51	11.52	1.57	58.24	74.11	46.60	14.82	64.47	60.00	YES

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
I SEMESTER - LABORATORY COURSES																
26	ENGINEERING DRAWING-I	A2302.1								89.47	54.24	71.58	10.85	81.84	60.00	YES
27		A2302.2								89.47	54.24	71.58	10.85	81.99	60.00	YES
28		A2302.3								89.47	54.24	71.58	10.85	81.93	60.00	YES
29		A2302.4								89.47	54.24	71.58	10.85	82.03	60.00	YES
30		A2302.5								89.47	54.24	71.58	10.85	82.41	60.00	YES
31	ENGINEERING PHYSICS& ENGINEERING CHEMISTRY LAB	A2008.1								99.12	75.00	79.30	15.00	92.75	60.00	YES
32		A2008.2								99.12	75.00	79.30	15.00	92.90	60.00	YES
33		A2008.3								99.12	75.00	79.30	15.00	92.84	60.00	YES
34		A2008.4								99.12	75.00	79.30	15.00	92.93	60.00	YES
35		A2008.5								99.12	75.00	79.30	15.00	93.33	60.00	YES
36		A2008.6								99.12	75.00	79.30	15.00	93.28	60.00	YES
37	COMPUTER PROGRAMMING LAB	A2502.1								86.84	53.57	69.47	10.71	79.36	60.00	YES
38		A2502.2								86.84	53.57	69.47	10.71	79.78	60.00	YES
39		A2502.3								86.84	53.57	69.47	10.71	80.07	60.00	YES
40		A2502.4								86.84	53.57	69.47	10.71	80.34	60.00	YES
41		A2502.5								86.84	53.57	69.47	10.71	80.27	60.00	YES
42		A2502.6								86.84	53.57	69.47	10.71	80.36	60.00	YES
II SEMESTER - THEORY COURSES																
43	TECHNICAL ENGLISH	A2005.1	98.86	100.00	78.95	78.57	49.72	11.84	11.79	91.68	47.76	73.34	9.55	82.07	60.00	YES
44		A2005.2	85.90		78.95	78.57	42.95	11.84	11.79	83.22	47.76	66.58	9.55	76.23	60.00	YES
45		A2005.3		57.78	78.95	78.57	28.89	11.84	11.79	65.65	47.76	52.52	9.55	64.02	60.00	YES
46		A2005.4		100.00	78.95	78.57	50.00	11.84	11.79	92.03	47.76	73.63	9.55	82.55	60.00	YES
47		A2005.5		100.00	78.95	78.57	50.00	11.84	11.79	92.03	47.76	73.63	9.55	82.82	60.00	YES
48	MATHEMATICS-II	A2006.1	61.13		49.12	63.72	30.56	7.37	9.56	59.36	55.22	47.49	11.04	60.94	60.00	YES
49		A2006.2	67.35		49.12	63.72	33.68	7.37	9.56	63.25	55.22	50.60	11.04	63.46	60.00	YES
50		A2006.3		64.92	49.12	63.72	32.46	7.37	9.56	61.73	55.22	49.39	11.04	62.66	60.00	YES

51		A2006.4		50.11	49.12	63.72	25.06	7.37	9.56	52.48	55.22	41.98	11.04	56.64	60.00	NO
52		A2006.5		57.01	49.12	63.72	28.51	7.37	9.56	56.79	55.22	45.43	11.04	60.18	60.00	YES
53	NUMARICAL METHODS	A2007.1	82.14		53.98	47.32	41.07	8.10	7.10	70.33	63.85	56.27	12.77	70.35	60.00	YES
54		A2007.2	75.94		53.98	47.32	37.97	8.10	7.10	66.46	63.85	53.17	12.77	67.85	60.00	YES
55		A2007.3		81.42	53.98	47.32	40.71	8.10	7.10	69.88	63.85	55.91	12.77	70.28	60.00	YES
56		A2007.4		76.84	53.98	47.32	38.42	8.10	7.10	67.02	63.85	53.62	12.77	68.38	60.00	YES
57		A2007.5		82.43	53.98	47.32	41.22	8.10	7.10	70.51	63.85	56.41	12.77	71.01	60.00	YES
58	BASIC ELECTRONICS	A2403.1	72.64		84.96	48.67	36.32	12.74	7.30	70.46	51.49	56.36	10.30	68.12	60.00	YES
59		A2403.2	81.34		84.96	48.67	40.67	12.74	7.30	75.89	51.49	60.71	10.30	71.83	60.00	YES
60		A2403.3		76.28	84.96	48.67	38.14	12.74	7.30	72.73	51.49	58.18	10.30	69.73	60.00	YES
60		A2403.4		83.66	84.96	48.67	41.83	12.74	7.30	77.34	51.49	61.87	10.30	73.11	60.00	YES
61		A2403.5		87.52	84.96	48.67	43.76	12.74	7.30	79.76	51.49	63.80	10.30	74.80	60.00	YES
62	ENGINEERING MECHANICS-II	A2303.1	67.87		70.18	61.06	33.94	10.53	9.16	67.03	55.22	53.62	11.04	66.96	60.00	YES
63		A2303.2	53.76		70.18	61.06	26.88	10.53	9.16	58.21	55.22	46.57	11.04	60.37	60.00	YES
64		A2303.3		47.33	70.18	61.06	23.67	10.53	9.16	54.19	55.22	43.35	11.04	58.44	60.00	NO
65		A2303.4		49.63	70.18	61.06	24.82	10.53	9.16	55.63	55.22	44.50	11.04	59.52	60.00	NO
66		A2303.5		77.48	70.18	61.06	38.74	10.53	9.16	73.03	55.22	58.43	11.04	70.78	60.00	YES
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
II SEMESTER - LABORATORY COURSES																
67	ENGINEERING DRAWING-II	A2304.1								92.04	58.93	73.63	11.79	84.73	60.00	YES
68		A2304.2								92.04	58.93	73.63	11.79	84.63	60.00	YES
69		A2304.3								92.04	58.93	73.63	11.79	84.79	60.00	YES
70		A2304.4								92.04	58.93	73.63	11.79	84.94	60.00	YES
71		A2304.5								92.04	58.93	73.63	11.79	85.06	60.00	YES
70	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	A2009.1								100.00	75.00	80.00	15.00	93.52	60.00	YES
71		A2009.2								100.00	75.00	80.00	15.00	93.42	60.00	YES
72		A2009.3								100.00	75.00	80.00	15.00	93.58	60.00	YES
73		A2009.4								100.00	75.00	80.00	15.00	93.73	60.00	YES
74		A2009.5								100.00	75.00	80.00	15.00	93.85	60.00	YES
75	ENGINEERING WORKSHOP	A2305.1								94.69	69.03	75.75	13.81	88.40	60.00	YES
76		A2305.2								94.69	69.03	75.75	13.81	88.53	60.00	YES

77	PRACTICE LAB	A2305.3									94.69	69.03	75.75	13.81	88.61	60.00	YES
77		A2305.4									94.69	69.03	75.75	13.81	88.65	60.00	YES
78		A2305.5										94.69	69.03	75.75	13.81	88.67	60.00

ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
III SEMESTER - THEORY COURSES																
1	Mechanics of Solids	CA2307.1	66.91		46.27	45.59	33.46	6.94	6.84	59.04	40.44	47.23	8.09	58.12	60.00	NO
2		CA2307.2	75.68		46.27	45.59	37.84	6.94	6.84	64.52	40.44	51.62	8.09	61.61	60.00	YES
3		CA2307.3		66.48	46.27	45.59	33.24	6.94	6.84	58.77	40.44	47.02	8.09	57.91	60.00	NO
4		CA2307.4		72.85	46.27	45.59	36.43	6.94	6.84	62.75	40.44	50.20	8.09	60.55	60.00	YES
5		CA2307.5		57.38	46.27	45.59	28.69	6.94	6.84	53.09	40.44	42.47	8.09	53.80	60.00	NO
6	Mechanics of Fluids	C A2308.1	70.76	62.31	76.30	40.74	33.27	11.44	6.11	63.53	35.29	50.82	7.06	59.65	60.00	NO
7		CA2308.2		73.29	76.30	40.74	36.65	11.44	6.11	67.75	35.29	54.20	7.06	62.52	60.00	YES
8		C A2308.3	65.20		76.30	40.74	32.60	11.44	6.11	62.70	35.29	50.16	7.06	59.34	60.00	NO
9		C A2308.4	82.45	72.07	76.30	40.74	38.63	11.44	6.11	70.23	35.29	56.19	7.06	64.87	60.00	YES
10		C A2308.5		79.31	76.30	40.74	39.66	11.44	6.11	71.51	35.29	57.21	7.06	65.90	60.00	YES
11	Thermodynamics	C A2309.1			88.24	65.19	0.00	13.24	9.78	28.77	41.91	23.01	8.38	36.79	60.00	NO
12		C A2309.2	72.64		88.24	65.19	36.32	13.24	9.78	74.17	41.91	59.33	8.38	68.49	60.00	YES
13		C A2309.3	70.61	83.79	88.24	65.19	38.60	13.24	9.78	77.01	41.91	61.61	8.38	70.76	60.00	YES
14		C A2309.4			88.24	65.19	0.00	13.24	9.78	28.77	41.91	23.01	8.38	37.07	60.00	NO
15		C A2309.5		83.59	88.24	65.19	41.80	13.24	9.78	81.01	41.91	64.81	8.38	73.87	60.00	YES
16	Metallurgy & Material Science	C A2310.1	74.23		46.67	39.68	37.12	7.00	5.95	62.58	50.00	50.07	10.00	61.99	60.00	YES
17		C A2310.2	63.77		46.67	39.68	31.89	7.00	5.95	56.05	50.00	44.84	10.00	57.39	60.00	NO
18		C A2310.3		65.84	46.67	39.68	32.92	7.00	5.95	57.34	50.00	45.87	10.00	58.47	60.00	NO
19		C A2310.4		52.07	46.67	39.68	26.04	7.00	5.95	48.73	50.00	38.99	10.00	52.80	60.00	NO
20		C A2310.5		76.12	46.67	39.68	38.06	7.00	5.95	63.77	50.00	51.01	10.00	63.54	60.00	YES
21	Environmental Science	C A2011.1	91.87	98.50	83.82	51.47	47.59	12.57	7.72	84.86	64.71	67.89	12.94	80.54	60.00	YES
22		C A2011.2	74.11		83.82	51.47	37.05	12.57	7.72	71.68	64.71	57.35	12.94	71.43	60.00	YES
23		C A2011.3		98.22	83.82	51.47	49.11	12.57	7.72	86.75	64.71	69.40	12.94	81.67	60.00	YES
24		C A2011.4			83.82	51.47	0.00	12.57	7.72	25.37	64.71	20.29	12.94	39.25	60.00	NO
25		C A2011.5	74.63	96.24	83.82	51.47	42.72	12.57	7.72	78.76	64.71	63.01	12.94	76.86	60.00	YES

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
III SEMESTER - LABORATORY COURSES																
26	Machine Drawing	C A2311.1								99.25	50.37	79.40	10.07	87.78	60.00	YES
27		C A2311.2								99.25	50.37	79.40	10.07	87.94	60.00	YES
28		C A2311.3								99.25	50.37	79.40	10.07	87.88	60.00	YES
29		C A2311.4								99.25	50.37	79.40	10.07	87.98	60.00	YES
30		C A2311.5								99.25	50.37	79.40	10.07	88.35	60.00	YES
31	MOS/MMS Lab	C A2312.1								100.00	75.00	80.00	15.00	93.24	60.00	YES
32		C A2312.2								100.00	75.00	80.00	15.00	93.39	60.00	YES
33		C A2312.3								100.00	75.00	80.00	15.00	93.33	60.00	YES
34		C A2312.4								100.00	75.00	80.00	15.00	93.43	60.00	YES
35		C A2312.5								100.00	75.00	80.00	15.00	93.80	60.00	YES
36	Fuels and Lubrication Lab	C A2313.1								100.00	75.00	80.00	15.00	92.69	60.00	YES
37		C A2313.2								100.00	75.00	80.00	15.00	93.14	60.00	YES
38		C A2313.3								100.00	75.00	80.00	15.00	93.45	60.00	YES
39		C A2313.4								100.00	75.00	80.00	15.00	93.82	60.00	YES
40		C A2313.5								100.00	75.00	80.00	15.00	93.82	60.00	YES
IV SEMESTER - THEORY COURSES																
41	Managerial Economics and Financial Analysis	CA2012.1	64.53		95.56	62.96	32.27	14.33	9.44	70.05	47.76	56.04	9.55	66.76	60.00	YES
42		CA2012.2	67.10		95.56	62.96	33.55	14.33	9.44	71.66	47.76	57.33	9.55	68.01	60.00	YES
43		CA2012.3		39.83	95.56	62.96	19.92	14.33	9.44	54.62	47.76	43.69	9.55	56.18	60.00	NO
44		CA2012.4		48.61	95.56	62.96	24.31	14.33	9.44	60.10	47.76	48.08	9.55	60.08	60.00	YES
45		CA2012.5		47.37	95.56	62.96	23.69	14.33	9.44	59.33	47.76	47.46	9.55	59.83	60.00	NO
46	Thermal Engineering – I	CA2314.1	58.63		81.68	48.46	29.31	12.25	7.27	61.04	55.22	48.83	11.04	61.98	60.00	YES
47		CA2314.2	71.30		81.68	48.46	35.65	12.25	7.27	68.97	55.22	55.17	11.04	67.30	60.00	YES
48		CA2314.3	45.67	58.42	81.68	48.46	26.02	12.25	7.27	56.93	55.22	45.54	11.04	59.17	60.00	NO
49		CA2314.4		66.06	81.68	48.46	33.03	12.25	7.27	65.69	55.22	52.55	11.04	65.80	60.00	YES
50		CA2314.5		90.48	81.68	48.46	45.24	12.25	7.27	80.95	55.22	64.76	11.04	76.46	60.00	YES

51	Manufacturing Technology- I	CA2315.1	79.25	88.18	84.85	34.35	41.86	12.73	5.15	74.67	63.85	59.74	12.77	73.25	60.00	YES
52		CA2315.2	82.86	84.65	84.85	34.35	41.88	12.73	5.15	74.70	63.85	59.76	12.77	73.49	60.00	YES
53		CA2315.3		81.85	84.85	34.35	40.93	12.73	5.15	73.51	63.85	58.81	12.77	72.70	60.00	YES
54		CA2315.4	81.52		84.85	34.35	40.76	12.73	5.15	73.30	63.85	58.64	12.77	72.66	60.00	YES
55		CA2315.5		70.13	84.85	34.35	35.07	12.73	5.15	66.18	63.85	52.94	12.77	67.89	60.00	YES
56	Hydraulic Machinery and Systems	CA2316.1		73.59	87.31	55.88	36.80	13.10	8.38	72.84	51.49	58.27	10.30	69.66	60.00	YES
57		CA2316.2	68.43		87.31	55.88	34.22	13.10	8.38	69.62	51.49	55.69	10.30	67.30	60.00	YES
58		CA2316.3			87.31	55.88	0.00	13.10	8.38	26.85	51.49	21.48	10.30	37.49	60.00	NO
58		CA2316.4	75.44	69.72	87.31	55.88	36.29	13.10	8.38	72.21	51.49	57.77	10.30	69.41	60.00	YES
59		CA2316.5		79.82	87.31	55.88	39.91	13.10	8.38	76.74	51.49	61.39	10.30	72.58	60.00	YES
60	Kinematics of Machinery	CA2317.1	65.92		76.30	60.15	32.96	11.44	9.02	66.78	55.22	53.43	11.04	66.71	60.00	YES
61		CA2317.2	65.09		76.30	60.15	32.55	11.44	9.02	66.27	55.22	53.01	11.04	65.89	60.00	YES
62		CA2317.3		83.38	76.30	60.15	41.69	11.44	9.02	77.70	55.22	62.16	11.04	73.70	60.00	YES
63		CA2317.4		73.92	76.30	60.15	36.96	11.44	9.02	71.78	55.22	57.43	11.04	69.88	60.00	YES
64		CA2317.5		84.87	76.30	60.15	42.44	11.44	9.02	78.63	55.22	62.90	11.04	74.58	60.00	YES
65	Electrical Technology	CA2213.1	62.99		57.04	58.52	31.50	8.56	8.78	61.04	78.02	48.83	15.60	66.66	60.00	YES
66		CA2213.2	59.82		57.04	58.52	29.91	8.56	8.78	59.06	78.02	47.25	15.60	65.40	60.00	YES
67		CA2213.3		64.55	57.04	58.52	32.27	8.56	8.78	62.01	78.02	49.61	15.60	67.53	60.00	YES
68		CA2213.4		68.62	57.04	58.52	34.31	8.56	8.78	64.55	78.02	51.64	15.60	69.54	60.00	YES
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
IV SEMESTER - LABORATORY COURSES																
69	Fluid Mechanics and Hydraulic Machinery Lab	CA2318.1								94.07	72.78	75.26	14.56	88.80	60.00	YES
70		CA2318.2								94.07	72.78	75.26	14.56	88.70	60.00	YES
71		CA2318.3								94.07	72.78	75.26	14.56	88.86	60.00	YES
72		CA2318.4								94.07	72.78	75.26	14.56	89.03	60.00	YES
73		CA2318.5								94.07	72.78	75.26	14.56	89.15	60.00	YES
74	Electrical Technology Lab	CA2214.1								80.74	65.00	64.59	13.00	77.69	60.00	YES
75		CA2214.2								80.74	65.00	64.59	13.00	77.83	60.00	YES
76		CA2214.3								80.74	65.00	64.59	13.00	77.91	60.00	YES
77		CA2214.4									80.74	65.00	64.59	13.00	77.98	60.00

ATTAINMENT CALCULATIONS OF COs OF THIRD YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
V SEMESTER - THEORY COURSES																
1	Dynamics of Machinery	CA2319.1	68.70		71.32	47.01	34.35	10.70	7.05	65.12	46.62	52.10	9.32	63.69	60.00	YES
2		CA2319.2	65.68		71.32	47.01	32.84	10.70	7.05	63.24	46.62	50.59	9.32	62.00	60.00	YES
3		CA2319.3		78.15	71.32	47.01	39.08	10.70	7.05	71.03	46.62	56.83	9.32	67.84	60.00	YES
4		CA2319.4	66.60	81.42	71.32	47.01	37.01	10.70	7.05	68.44	46.62	54.76	9.32	65.83	60.00	YES
5		CA2319.5		92.93	71.32	47.01	46.47	10.70	7.05	80.27	46.62	64.22	9.32	74.13	60.00	YES
6	Manufacturing Technology-II	C A2320.1	60.67		58.82	75.94	30.34	8.82	11.39	63.19	45.52	50.55	9.10	61.42	60.00	YES
7		C A2320.2	59.13		58.82	75.94	29.56	8.82	11.39	62.22	45.52	49.78	9.10	60.74	60.00	YES
8		C A2320.3	41.13	67.94	58.82	75.94	27.27	8.82	11.39	59.35	45.52	47.48	9.10	59.06	60.00	NO
9		C A2320.4		53.25	58.82	75.94	26.63	8.82	11.39	58.55	45.52	46.84	9.10	59.21	60.00	NO
10		C A2320.5		42.98	58.82	75.94	21.49	8.82	11.39	52.13	45.52	41.70	9.10	54.41	60.00	NO
11	Thermal Engineering - II	C A2321.1	19.52	69.80	29.32	77.44	22.33	4.40	11.62	47.93	46.27	38.34	9.25	51.05	60.00	NO
12		C A2321.2		64.47	29.32	77.44	32.24	4.40	11.62	60.31	46.27	48.25	9.25	59.72	60.00	NO
13		C A2321.3	48.36		29.32	77.44	24.18	4.40	11.62	50.25	46.27	40.20	9.25	52.96	60.00	NO
14		C A2321.4	60.88	61.86	29.32	77.44	30.69	4.40	11.62	58.38	46.27	46.70	9.25	59.18	60.00	NO
15		C A2321.5		48.90	29.32	77.44	24.45	4.40	11.62	50.58	46.27	40.47	9.25	53.48	60.00	NO
16	Design of Machine Members - I	C A2322.1	35.80	74.14	75.94	40.46	27.48	11.39	6.07	56.18	90.23	44.94	18.05	65.55	60.00	YES
17		C A2322.2	51.89		75.94	40.46	25.94	11.39	6.07	54.25	90.23	43.40	18.05	64.19	60.00	YES
18		C A2322.3		80.07	75.94	40.46	40.04	11.39	6.07	71.87	90.23	57.49	18.05	76.74	60.00	YES
19		C A2322.4		65.00	75.94	40.46	32.50	11.39	6.07	62.45	90.23	49.96	18.05	70.51	60.00	YES
20		C A2322.5		55.73	75.94	40.46	27.86	11.39	6.07	56.65	90.23	45.32	18.05	66.64	60.00	YES
21	Metrology and Instrumentation Engineering	C A2323.1	70.47	86.75	71.97	43.18	39.30	10.80	6.48	70.72	76.92	56.58	15.38	73.09	60.00	YES
22		C A2323.2	66.09		71.97	43.18	33.05	10.80	6.48	62.90	76.92	50.32	15.38	67.70	60.00	YES
23		C A2323.3		45.25	71.97	43.18	22.62	10.80	6.48	49.87	76.92	39.90	15.38	59.15	60.00	NO
24		C A2323.4		74.78	71.97	43.18	37.39	10.80	6.48	68.33	76.92	54.66	15.38	71.81	60.00	YES
25		C A2323.5		80.74	71.97	43.18	40.37	10.80	6.48	72.05	76.92	57.64	15.38	74.66	60.00	YES
26	Management Science	C A2013.1			37.31	75.94	0.00	5.60	11.39	21.23	75.94	16.99	15.19	38.36	60.00	NO
27		C A2013.2	80.11		37.31	75.94	40.05	5.60	11.39	71.30	75.94	57.04	15.19	73.47	60.00	YES
28		C A2013.3	42.67	77.52	37.31	75.94	30.05	5.60	11.39	58.80	75.94	47.04	15.19	64.41	60.00	YES
29		C A2013.4		88.91	37.31	75.94	44.45	5.60	11.39	76.80	75.94	61.44	15.19	77.62	60.00	YES

30		C A2013.5		71.05	37.31	75.94	35.53	5.60	11.39	65.64	75.94	52.51	15.19	69.97	60.00	YES
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
V SEMESTER - LABORATORY COURSES																
31	Thermal Engineering Lab	C A2324.1								98.51	96.27	78.81	19.25	96.49	60.00	YES
32		C A2324.2								98.51	96.27	78.81	19.25	96.66	60.00	YES
33		C A2324.3								98.51	96.27	78.81	19.25	96.60	60.00	YES
34		C A2324.4								98.51	96.27	78.81	19.25	96.66	60.00	YES
35		C A2324.5								98.51	96.27	78.81	19.25	97.07	60.00	YES
31	Manufacturing Technology Lab	C A2325.1								99.25	99.25	79.40	19.85	97.53	60.00	YES
32		C A2325.2								99.25	99.25	79.40	19.85	97.77	60.00	YES
33		C A2325.3								99.25	99.25	79.40	19.85	97.67	60.00	YES
34		C A2325.4								99.25	99.25	79.40	19.85	97.77	60.00	YES
35		C A2325.5								99.25	99.25	79.40	19.85	98.16	60.00	YES
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
VI SEMESTER - THEORY COURSES																
36	Probability and Statistics	C A2014.1	52.40		75.94	48.09	26.20	11.39	7.21	56.00	47.76	44.80	9.55	56.93	60.00	NO
37		C A2014.2	55.02		75.94	48.09	27.51	11.39	7.21	57.65	47.76	46.12	9.55	59.58	60.00	NO
38		C A2014.3		70.09	75.94	48.09	35.04	11.39	7.21	67.06	47.76	53.65	9.55	64.90	60.00	YES
39		C A2014.4		53.35	75.94	48.09	26.67	11.39	7.21	56.60	47.76	45.28	9.55	58.92	60.00	NO
40		C A2014.5		57.56	75.94	48.09	28.78	11.39	7.21	59.23	47.76	47.38	9.55	60.05	60.00	YES
41	Nonconventional Energy Sources	CA2326.1			84.21	60.15	0.00	12.63	9.02	27.07	55.22	21.65	11.04	38.21	60.00	NO
42		CA2326.2	80.11		84.21	60.15	40.05	12.63	9.02	77.14	55.22	61.71	11.04	72.98	60.00	YES
43		CA2326.3	42.67	77.52	84.21	60.15	30.05	12.63	9.02	64.63	55.22	51.70	11.04	64.56	60.00	YES
44		CA2326.4		88.91	84.21	60.15	44.45	12.63	9.02	82.63	55.22	66.11	11.04	77.68	60.00	YES
45		CA2326.5		71.05	84.21	60.15	35.53	12.63	9.02	71.47	55.22	57.18	11.04	69.84	60.00	YES
46	Design of Machine Members – II	CA2327.1			95.45	46.97	0.00	14.32	7.05	26.70	63.85	21.36	12.77	39.67	60.00	NO
47		CA2327.2	61.26		95.45	46.97	30.63	14.32	7.05	64.99	63.85	51.99	12.77	66.71	60.00	YES
48		CA2327.3	84.41		95.45	46.97	42.21	14.32	7.05	79.46	63.85	63.57	12.77	76.88	60.00	YES
49		CA2327.4		98.83	95.45	46.97	49.41	14.32	7.05	88.47	63.85	70.78	12.77	83.30	60.00	YES
50		CA2327.5		45.45	95.45	46.97	22.73	14.32	7.05	55.11	63.85	44.09	12.77	60.16	60.00	YES

51	Heat Transfer	CA2328.1	73.64		85.71	36.84	36.82	12.86	5.53	69.00	51.49	55.20	10.30	66.98	60.00	YES
52		CA2328.2	52.49		85.71	36.84	26.25	12.86	5.53	55.79	51.49	44.63	10.30	58.91	60.00	NO
53		CA2328.3		66.42	85.71	36.84	33.21	12.86	5.53	64.49	51.49	51.59	10.30	63.85	60.00	YES
53		CA2328.4		73.64	85.71	36.84	36.82	12.86	5.53	69.00	51.49	55.20	10.30	67.17	60.00	YES
54		CA2328.5		56.19	85.71	36.84	28.10	12.86	5.53	58.10	51.49	46.48	10.30	60.44	60.00	YES
55	Finite Element Methods	CA2329.1			38.93	28.03	0.00	5.84	4.20	12.56	51.49	10.04	10.30	27.47	60.00	NO
56		CA2329.2			38.93	28.03	0.00	5.84	4.20	12.56	51.49	10.04	10.30	27.36	60.00	NO
57		CA2329.3	72.30	65.00	38.93	28.03	34.32	5.84	4.20	55.46	51.49	44.37	10.30	58.97	60.00	NO
57		CA2329.4		83.80	38.93	28.03	41.90	5.84	4.20	64.93	51.49	51.94	10.30	64.32	60.00	YES
58		CA2329.5	75.53	71.97	38.93	28.03	36.88	5.84	4.20	58.65	51.49	46.92	10.30	60.48	60.00	YES
55	Digital Electronics and Microprocessors	CA2448.1	93.49	85.71	97.62	78.57	44.80	14.64	11.79	89.04	55.22	71.23	11.04	82.29	60.00	YES
56		CA2448.2	92.94	90.86	97.62	78.57	45.95	14.64	11.79	90.47	55.22	72.38	11.04	82.80	60.00	YES
57		CA2448.3		84.40	97.62	78.57	42.20	14.64	11.79	85.79	55.22	68.63	11.04	79.37	60.00	YES
58		CA2448.4		91.67	97.62	78.57	45.83	14.64	11.79	90.33	55.22	72.26	11.04	82.91	60.00	YES
59	Air Pollution and Control Methodologies	CA2154.1	93.61	100.00	85.71	55.43	48.40	12.86	8.32	86.97	78.02	69.57	15.60	84.86	60.00	YES
60		CA2154.2	73.80	94.10	85.71	55.43	41.97	12.86	8.32	78.93	78.02	63.15	15.60	79.24	60.00	YES
61		CA2154.3	86.91	83.63	85.71	55.43	42.63	12.86	8.32	79.76	78.02	63.81	15.60	79.90	60.00	YES
62		CA2154.4	93.19	95.00	85.71	55.43	47.05	12.86	8.32	85.27	78.02	68.22	15.60	83.79	60.00	YES
63		CA2154.5		93.22	85.71	55.43	46.61	12.86	8.32	84.73	78.02	67.78	15.60	83.68	60.00	YES
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
VI SEMESTER - LABORATORY COURSES																
64	Heat Transfer Lab	CA2331.1								88.81	100.00	71.04	20.00	90.61	60.00	YES
65		CA2331.2								88.81	100.00	71.04	20.00	90.46	60.00	YES
66		CA2331.3								88.81	100.00	71.04	20.00	90.63	60.00	YES
67		CA2331.4								88.81	100.00	71.04	20.00	90.80	60.00	YES
68		CA2331.5								88.81	100.00	71.04	20.00	90.93	60.00	YES
69	Metrology & Instrumentation Lab	CA2332.1								88.81	99.25	71.04	19.85	90.23	60.00	YES
70		CA2332.2								88.81	99.25	71.04	19.85	90.33	60.00	YES
71		CA2332.3								88.81	99.25	71.04	19.85	90.42	60.00	YES
71		CA2332.4								88.81	99.25	71.04	19.85	90.48	60.00	YES
72		CA2332.5								88.81	99.25	71.04	19.85	90.48	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
VII SEMESTER - THEORY COURSES																
1	Operations Research	CA2333.1			92.48	46.97	0.00	13.87	7.05	26.15	93.23	20.92	18.65	45.58	60.00	NO
2		CA2333.2	57.81		92.48	46.97	28.91	13.87	7.05	62.28	93.23	49.82	18.65	70.78	60.00	YES
3		CA2333.3	66.57		92.48	46.97	33.29	13.87	7.05	67.76	93.23	54.20	18.65	74.84	60.00	YES
4		CA2333.4		73.58	92.48	46.97	36.79	13.87	7.05	72.14	93.23	57.71	18.65	77.77	60.00	YES
5		CA2333.5		84.69	92.48	46.97	42.35	13.87	7.05	79.08	93.23	63.26	18.65	82.70	60.00	YES
6	Computer Aided Design and Manufacturing	C A2334.1	11.48	82.60	52.27	65.91	23.52	7.84	9.89	51.56	45.86	41.25	9.17	53.40	60.00	NO
7		C A2334.2	50.06	83.07	52.27	65.91	33.28	7.84	9.89	63.76	45.86	51.01	9.17	62.18	60.00	YES
8		C A2334.3	55.47		52.27	65.91	27.73	7.84	9.89	56.83	45.86	45.46	9.17	57.49	60.00	NO
9		C A2334.4	91.92	77.07	52.27	65.91	42.25	7.84	9.89	74.97	45.86	59.98	9.17	70.28	60.00	YES
10		C A2334.5	47.83	81.54	52.27	65.91	32.34	7.84	9.89	62.59	45.86	50.07	9.17	61.96	60.00	YES
11	Computational Fluid Dynamics	C A2335.1	96.14		90.98	86.47	48.07	13.65	12.97	93.36	64.39	74.69	12.88	86.51	60.00	YES
12		C A2335.2	92.17		90.98	86.47	46.08	13.65	12.97	90.87	64.39	72.70	12.88	84.72	60.00	YES
13		C A2335.3		90.79	90.98	86.47	45.40	13.65	12.97	90.02	64.39	72.01	12.88	84.45	60.00	YES
14		C A2335.4		90.50	90.98	86.47	45.25	13.65	12.97	89.83	64.39	71.87	12.88	84.27	60.00	YES
15		C A2335.5		91.85	90.98	86.47	45.92	13.65	12.97	90.67	64.39	72.54	12.88	85.28	60.00	YES
16	Refrigeration and Air Conditioning	C A2336.1		79.81	74.44	68.93	39.90	11.17	10.34	76.76	70.68	61.41	14.14	76.15	60.00	YES
17		C A2336.2	71.27	58.51	74.44	68.93	32.44	11.17	10.34	67.44	70.68	53.95	14.14	69.53	60.00	YES
18		C A2336.3	80.66	56.96	74.44	68.93	34.40	11.17	10.34	69.89	70.68	55.91	14.14	71.66	60.00	YES
19		C A2336.4	67.64		74.44	68.93	33.82	11.17	10.34	69.16	70.68	55.32	14.14	71.29	60.00	YES
20		C A2336.5	66.67	72.60	74.44	68.93	34.82	11.17	10.34	70.40	70.68	56.32	14.14	72.35	60.00	YES
21	Entrepreneurship	C A2017.1	95.39		93.23	55.30	47.70	13.98	8.30	87.47	90.98	69.98	18.20	87.54	60.00	YES
22		C A2017.2	90.39		93.23	55.30	45.19	13.98	8.30	84.34	90.98	67.48	18.20	85.72	60.00	YES
23		C A2017.3		99.79	93.23	55.30	49.90	13.98	8.30	90.22	90.98	72.18	18.20	89.63	60.00	YES
24		C A2017.4		99.46	93.23	55.30	49.73	13.98	8.30	90.01	90.98	72.01	18.20	89.86	60.00	YES
25		C A2017.5		98.75	93.23	55.30	49.38	13.98	8.30	89.57	90.98	71.66	18.20	89.80	60.00	YES
26	Automobile Engineering	C A2337.1	82.90	95.17	90.23	46.97	44.52	13.53	7.05	81.37	35.34	65.09	7.07	72.40	60.00	YES
27		C A2337.2	73.57	88.63	90.23	46.97	40.55	13.53	7.05	76.41	35.34	61.13	7.07	69.11	60.00	YES
28		C A2337.3	82.26	96.57	90.23	46.97	44.71	13.53	7.05	81.61	35.34	65.29	7.07	72.52	60.00	YES
29		C A2337.4	89.93	96.47	90.23	46.97	46.60	13.53	7.05	83.97	35.34	67.18	7.07	74.45	60.00	YES

30		C A2337.5	78.07	95.62	90.23	46.97	43.42	13.53	7.05	80.00	35.34	64.00	7.07	71.98	60.00	YES
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
VII SEMESTER - LABORATORY COURSES																
31	Computer Aided Design and Manufacturing Lab	C A2343.1								96.24	100.00	76.99	20.00	95.55	60.00	YES
32		C A2343.2								96.24	100.00	76.99	20.00	95.65	60.00	YES
33		C A2343.3								96.24	100.00	76.99	20.00	96.02	60.00	YES
34		C A2343.4								96.24	100.00	76.99	20.00	96.07	60.00	YES
35		C A2343.5								96.24	100.00	76.99	20.00	96.37	60.00	YES
31	Theory of Machines Lab	C A2344.1								100.00	100.00	80.00	20.00	97.40	60.00	YES
32		C A2344.2								100.00	100.00	80.00	20.00	97.71	60.00	YES
33		C A2344.3								100.00	100.00	80.00	20.00	97.51	60.00	YES
34		C A2344.4								100.00	100.00	80.00	20.00	97.74	60.00	YES
35		C A2344.5								100.00	100.00	80.00	20.00	97.95	60.00	YES
36	Mini Project	C A2345.1								100.00	100.00	80.00	20.00	97.53	60.00	YES
37		C A2345.2								100.00	100.00	80.00	20.00	98.00	60.00	YES
38		C A2345.3								100.00	100.00	80.00	20.00	97.58	60.00	YES
39		C A2345.4								100.00	100.00	80.00	20.00	97.93	60.00	YES
40		C A2345.5								100.00	100.00	80.00	20.00	97.86	60.00	YES
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
VIII SEMESTER - THEORY COURSES																
41	Mechanical Vibrations and Structural Dynamics	CA2346.1	69.29	75.52	38.35	47.29	36.20	5.7519	7.093	61.31	93.08	49.05	18.62	69.73	60.00	YES
42		CA2346.2			38.35	47.29	0.00	5.7519	7.093	16.06	93.08	12.84	18.62	38.05	60.00	NO
43		CA2346.3	53.33	90.91	38.35	47.29	36.06	5.7519	7.093	61.13	93.08	48.90	18.62	69.97	60.00	YES
44		CA2346.4		80.78	38.35	47.29	40.39	5.7519	7.093	66.54	93.08	53.23	18.62	73.68	60.00	YES
45		CA2346.5		85.71	38.35	47.29	42.86	5.7519	7.093	69.62	93.08	55.70	18.62	76.33	60.00	YES
46	Power plant Engineering	CA2349.1	86.87	85.76	79.70	40.09	43.16	11.955	6.0135	76.41	85.71	61.12	17.14	79.07	60.00	YES
47		CA2349.2	81.99	83.61	79.70	40.09	41.40	11.955	6.0135	74.21	85.71	59.37	17.14	76.82	60.00	YES
48		CA2349.3		86.24	79.70	40.09	43.12	11.955	6.0135	76.36	85.71	61.09	17.14	78.84	60.00	YES
49		CA2349.4	95.12	79.40	79.70	40.09	43.63	11.955	6.0135	77.00	85.71	61.60	17.14	79.99	60.00	YES

50		CA2349.5	87.76		79.70	40.09	43.88	11.955	6.0135	77.31	85.71	61.85	17.14	79.94	60.00	YES
51	Total Quality Management	CA2353.1	91.77		82.26	89.93	45.89	12.339	13.49	89.64	59.40	71.72	11.88	82.92	60.00	YES
52		CA2353.2		86.80	82.26	89.93	43.40	12.339	13.49	86.54	59.40	69.23	11.88	81.19	60.00	YES
53		CA2353.3	99.42		82.26	89.93	49.71	12.339	13.49	94.42	59.40	75.54	11.88	86.83	60.00	YES
54		CA2353.4		85.13	82.26	89.93	42.57	12.339	13.49	85.49	59.40	68.39	11.88	80.50	60.00	YES
55		CA2353.5		69.98	82.26	89.93	34.99	12.339	13.49	76.02	59.40	60.82	11.88	73.93	60.00	YES
S.No.	Course Name & Code	CO#	MT1	MT2	Q1	Q2	50% of (MT1+MT2)	15 % of Q1	15 % of Q2	TOTAL CIE	SEE	80 % of CIE	20 % of SEE	Total CO AT through DA	Target AT in %	CO Attained (YES/NO)
VIII SEMESTER - LABORATORY COURSES																
56	Simulations Lab	CA2359.1								99.25	100.00	79.40	20.00	97.79	60.00	YES
57		CA2359.2								99.25	100.00	79.40	20.00	97.82	60.00	YES
58		CA2359.3								99.25	100.00	79.40	20.00	97.57	60.00	YES
59		CA2359.4								99.25	100.00	79.40	20.00	97.67	60.00	YES
60		CA2359.5								99.25	100.00	79.40	20.00	98.01	60.00	YES
61	Technical Seminar	CA2360.1								100.00	100.00	80.00	20.00	97.93	60.00	YES
62		CA2360.2								100.00	100.00	80.00	20.00	98.00	60.00	YES
63		CA2360.3								100.00	100.00	80.00	20.00	97.95	60.00	YES
64		CA2360.4								100.00	100.00	80.00	20.00	98.00	60.00	YES
65		CA2360.5								100.00	100.00	80.00	20.00	97.78	60.00	YES
66	Comprehensive Viva	CA2361.1								100.00	100.00	80.00	20.00	98.00	60.00	YES
67		CA2361.2								100.00	100.00	80.00	20.00	97.54	60.00	YES
68		CA2361.3								100.00	100.00	80.00	20.00	97.56	60.00	YES
69		CA2361.4								100.00	100.00	80.00	20.00	98.00	60.00	YES
70		CA2361.5								100.00	100.00	80.00	20.00	97.56	60.00	YES
71	Project Work	CA2362.1								100.00	100.00	80.00	20.00	97.66	60.00	YES
72		CA2362.2								100.00	100.00	80.00	20.00	97.98	60.00	YES
73		CA2362.3								100.00	100.00	80.00	20.00	97.54	60.00	YES
73		CA2362.4								100.00	100.00	80.00	20.00	97.80	60.00	YES
74		CA2362.5								100.00	100.00	80.00	20.00	97.71	60.00	YES

CO Attainments of courses through IDA

ATTAINMENT CALCULATIONS OF COs OF FIRST YEAR COURSES THROUGH IDA FOR 2014-2018 BATCH

S. No.	Course Name & Code	CO#	Total CO AT through IDA in %		S. No.	Course Name & Code	CO#	Total CO AT through IDA in %
I SEMESTER - THEORY COURSES					II SEMESTER - THEORY COURSES			
1	Mathematics-I	A2001.1	88.55		43	Technical English	A2005.1	83.46
2		A2001.2	86.18		44		A2005.2	84.23
3		A2001.3	88.18		45		A2005.3	85.19
4		A2001.4	92.18		46		A2005.4	85.77
5		A2001.5	86.91		47		A2005.5	88.46
6	Engineering Physics	A2002.1	82.91		48	Mathematics-II	A2006.1	83.46
7		A2002.2	82.18		49		A2006.2	81.35
8		A2002.3	85.45		50		A2006.3	84.04
9		A2002.4	87.82		51		A2006.4	88.65
10		A2002.5	89.09		52		A2006.5	93.85
11	Engineering Chemistry	A2003.1	84.36		53	Numerical Methods	A2007.1	83.46
12		A2003.2	83.64		54		A2007.2	85.58
13		A2003.3	85.82		55		A2007.3	85.96
14		A2003.4	86.91		56		A2007.4	86.92
15		A2003.5	88.73		57		A2007.5	88.85
16	Computer Programming	A2501.1	95.45		58	Basic Electronics	A2403.1	85.00
17		A2501.2	86.55		59		A2403.2	84.04
18		A2501.3	84.91		60		A2403.3	85.19
19		A2501.4	88.18		60		A2403.4	86.73
20		A2501.5	90.18		61		A2403.5	86.73
21	Engineering Mechanics-I	A2301.1	83.64		62	Engineering Mechanics-II	A2303.1	90.00
22		A2301.2	84.73		63		A2303.2	85.77
23		A2301.3	81.45		64		A2303.3	94.62
24		A2301.4	86.55		65		A2303.4	95.38
25		A2301.5	88.73		66		A2303.5	86.15
S. No.	Course Name & Code	CO#	Total CO AT through IDA in %		S. No.	Course Name & Code	CO#	Total CO AT through IDA in %
I SEMESTER - LABORATORY COURSES					II SEMESTER - LABORATORY COURSES			
26	Engineering Drawing-I	A2302.1	83.64		67	Engineering Drawing-II	A2304.1	85.19
27		A2302.2	85.09		68		A2304.2	84.23
28		A2302.3	84.55		69		A2304.3	85.77
29		A2302.4	85.45		70		A2304.4	87.31
30		A2302.5	89.27		71		A2304.5	88.46
31	Engineering Physics & Engineering Chemistry Lab	A2008.1	83.64		70	English Language Communication Skills Lab	A2009.1	85.19
32		A2008.2	85.09		71		A2009.2	84.23
33		A2008.3	84.55		72		A2009.3	85.77
34		A2008.4	85.45		73		A2009.4	87.31
35		A2008.5	89.45		74		A2009.5	88.46
36		A2008.6	88.91		75		Engineering Workshop Practice Lab	A2305.1
37	A2502.1	78.55		76	A2305.2	84.42		
38	A2502.2	82.73		77	A2305.3	85.19		
39	A2502.3	85.64		77	A2305.4	85.58		
40	A2502.4	88.36		78	A2305.5	85.77		
41	A2502.5	87.64						
42	A2502.6	88.55						

ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH IDA FOR 2014-2018 BATCH

S. No.	Course Name & Code	CO#	Total CO AT through IDA in %	S. No.	Course Name & Code	CO#	Total CO AT through IDA in %
III SEMESTER - THEORY COURSES				IV SEMESTER - THEORY COURSES			
1	Mechanics of Solids	CA2307.1	87.06	41	Managerial Economics and Financial Analysis	CA2012.1	81.67
2		CA2307.2	83.53	42		CA2012.2	82.92
3		CA2307.3	86.86	43		CA2012.3	83.96
4		CA2307.4	85.29	44		CA2012.4	84.58
5		CA2307.5	85.49	45		CA2012.5	87.50
6	Mechanics of Fluids	C A2308.1	81.18	46	Thermal Engineering - I	CA2314.1	82.08
7		CA2308.2	80.39	47		CA2314.2	79.79
8		C A2308.3	83.92	48		CA2314.3	82.71
9		C A2308.4	86.47	49		CA2314.4	87.71
10		C A2308.5	87.84	50		CA2314.5	87.50
11	Thermodynamics	C A2309.1	82.75	51	Manufacturing Technology- I	CA2315.1	82.08
12		C A2309.2	81.96	52		CA2315.2	84.38
13		C A2309.3	84.71	53		CA2315.3	84.79
14		C A2309.4	85.49	54		CA2315.4	85.83
15		C A2309.5	87.84	55		CA2315.5	87.92
16	Metallurgy & Material Science	C A2310.1	81.76	56	Hydraulic Machinery and Systems	CA2316.1	83.75
17		C A2310.2	81.57	57		CA2316.2	82.71
18		C A2310.3	83.33	58		CA2316.3	83.96
19		C A2310.4	86.86	58		CA2316.4	85.63
20		C A2310.5	89.02	59		CA2316.5	85.63
21	Environmental Science	C A2011.1	81.96	60	Kinematics of Machinery	CA2317.1	89.17
22		C A2011.2	83.14	61		CA2317.2	84.58
23		C A2011.3	80.00	62		CA2317.3	82.71
24		C A2011.4	85.49	63		CA2317.4	85.83
25		C A2011.5	87.84	64		CA2317.5	85.00
S. No.	Course Name & Code	CO#	Total CO AT through IDA in %	65	Electrical Technology	CA2213.1	83.33
III SEMESTER - LABORATORY COURSES				66		CA2213.2	84.58
26	Machine Drawing	C	82.35	67		CA2213.3	85.21
27		C	83.92	68		CA2213.4	87.50
28		C	83.33	S. No.	Course Name & Code	CO#	Total CO AT through IDA in %
29		C	84.31	IV SEMESTER - LABORATORY COURSES			
30		C	88.04	69	Fluid Mechanics and Hydraulic Machinery Lab	CA2318.1	83.96
31	MOS/MMS Lab	C	82.35	70		CA2318.2	82.92
32		C	83.92	71		CA2318.3	84.58
33		C	83.33	72		CA2318.4	86.25
34		C	84.31	73		CA2318.5	87.50
35		C	88.04	74	Electrical Technology Lab	CA2214.1	81.67
36	Fuels and Lubrication Lab	C	76.86	75		CA2214.2	83.13
37		C	81.37	76		CA2214.3	83.96
				77	CA2214.4	84.58	

38		C	84.51
39		C	88.24
40		C	88.24

ATTAINMENT CALCULATIONS OF COs OF THIRD YEAR COURSES THROUGH IDA FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	Total CO AT through IDA in %	S. No.	Course Name & Code	CO#	Total CO AT through IDA in %
V SEMESTER - THEORY COURSES				VI SEMESTER - THEORY COURSES			
1	Dynamics of Machinery	CA2319.1	87.76	36	Probability and Statistics	C A2014.1	81.70
2		CA2319.2	84.08	37		C A2014.2	96.81
3		CA2319.3	87.96	38		C A2014.3	84.04
4		CA2319.4	85.92	39		C A2014.4	97.50
5		CA2319.5	86.12	40		C A2014.5	90.42
6	Manufacturing Technology-II	C A2320.1	80.82	41	Nonconventional Energy Sources	CA2326.1	82.17
7		C A2320.2	80.82	42		CA2326.2	79.36
8		C A2320.3	84.08	43		CA2326.3	82.77
9		C A2320.4	91.22	44		CA2326.4	87.87
10		C A2320.5	88.16	45		CA2326.5	87.66
11	Thermal Engineering – II	C A2321.1	82.45	46	Design of Machine Members – II	CA2327.1	82.08
12		C A2321.2	82.45	47		CA2327.2	84.47
13		C A2321.3	85.31	48		CA2327.3	84.89
14		C A2321.4	90.61	49		CA2327.4	85.96
15		C A2321.5	88.16	50		CA2327.5	88.09
16	Design of Machine Members – I	C A2322.1	81.84	51	Heat Transfer	CA2328.1	83.83
17		C A2322.2	81.63	52		CA2328.2	95.63
18		C A2322.3	83.88	53		CA2328.3	84.04
19		C A2322.4	87.55	53		CA2328.4	85.74
20		C A2322.5	89.39	54		CA2328.5	94.68
21	Metrology and Instrumentation Engineering	C A2323.1	82.00	55	Finite Element Methods	CA2329.1	83.83
22		C A2323.2	82.86	56		CA2329.2	82.77
23		C A2323.3	88.57	57		CA2329.3	98.51
24		C A2323.4	85.92	57		CA2329.4	85.74
25		C A2323.5	88.37	58		CA2329.5	91.28
26	Management Science	C A2013.1	83.06	55	Digital Electronics and Microprocessors	CA2448.1	89.15
27		C A2013.2	83.67	56		CA2448.2	84.26
28		C A2013.3	80.61	57		CA2448.3	82.77
29		C A2013.4	86.73	58		CA2448.4	86.38
30		C A2013.5	88.37	59		Air Pollution and Control Methodologies	CA2154.1
			60	CA2154.2	83.83		
			61	CA2154.3	84.68		
			62	CA2154.4	84.89		
			63	CA2154.5	87.66		
S.No.	Course Name & Code	CO#	Total CO AT through IDA in %	S.No.	Course Name & Code	CO#	Total CO AT through IDA in %
V SEMESTER - LABORATORY COURSES				VI SEMESTER - LABORATORY COURSES			
31	Thermal Engineering Lab	C A2324.1	82.86	64	Heat Transfer Lab	CA2331.1	84.47
32		C A2324.2	84.49	65		CA2331.2	82.98
33		C A2324.3	83.88	66		CA2331.3	84.68
34		C A2324.4	84.49	67		CA2331.4	86.38
35		C A2324.5	88.57	68		CA2331.5	87.66
31	Manufacturing Technology Lab	C A2325.1	82.04	69	Metrology & Instrumentation Lab	CA2332.1	82.13
32		C A2325.2	84.49	70		CA2332.2	83.19
33		C A2325.3	83.47	71		CA2332.3	84.04
34		C A2325.4	84.49	71		CA2332.4	84.68
35		C A2325.5	88.37	72		CA2332.5	84.68

ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH

S.No.	Course Name & Code	CO#	Total CO AT through IDA in %
VII SEMESTER - THEORY COURSES			
1	Operations Research	CA2333.1	86.28
2		CA2333.2	85.35
3		CA2333.3	87.67
4		CA2333.4	86.28
5		CA2333.5	86.98
6	Computer Aided Design and Manufacturing	C A2334.1	81.40
7		C A2334.2	83.72
8		C A2334.3	85.35
9		C A2334.4	86.28
10		C A2334.5	89.77
11	Computational Fluid Dynamics	C A2335.1	82.79
12		C A2335.2	82.33
13		C A2335.3	85.58
14		C A2335.4	85.12
15		C A2335.5	89.30
16	Refrigeration and Air Conditioning	C A2336.1	82.79
17		C A2336.2	81.86
18		C A2336.3	86.05
19		C A2336.4	87.44
20		C A2336.5	89.30
21	Entrepreneurship	C A2017.1	81.16
22		C A2017.2	84.88
23		C A2017.3	82.79
24		C A2017.4	86.51
25		C A2017.5	89.07
26	Automobile Engineering	C A2337.1	83.72
27		C A2337.2	85.58
28		C A2337.3	83.26
29		C A2337.4	86.05
30		C A2337.5	89.07
S.No.	Course Name & Code	CO#	Total CO AT through IDA in %
VII SEMESTER - LABORATORY COURSES			
31	Computer Aided Design and Manufacturing Lab	C A2343.1	81.86
32		C A2343.2	82.79
33		C A2343.3	86.51
34		C A2343.4	86.98
35		C A2343.5	90.00
31	Theory of Machines Lab	C A2344.1	73.95
32		C A2344.2	77.14
33		C A2344.3	75.12
34		C A2344.4	77.44
35		C A2344.5	79.53
36	Mini Project	C A2345.1	75.35
37		C A2345.2	80.00
38		C A2345.3	75.81
39		C A2345.4	79.29
40		C A2345.5	78.60

S.No.	Course Name & Code	CO#	Total CO AT through IDA in %
VIII SEMESTER - THEORY COURSES			
41	Mechanical Vibrations and Structural Dynamics	CA2346.1	81.95
42		CA2346.2	81.95
43		CA2346.3	85.61
44		CA2346.4	84.88
45		CA2346.5	89.76
46	Power plant Engineering	CA2349.1	84.39
47		CA2349.2	77.32
48		CA2349.3	82.44
49		CA2349.4	89.51
50		CA2349.5	86.83
51	Total Quality Management	CA2353.1	82.93
52		CA2353.2	87.32
53		CA2353.3	88.54
54		CA2353.4	87.80
55		CA2353.5	88.29
S.No.	Course Name & Code	CO#	Total CO AT through IDA in %
VIII SEMESTER - LABORATORY COURSES			
56	Simulations Lab	CA2359.1	83.17
57		CA2359.2	83.41
58		CA2359.3	80.98
59		CA2359.4	81.95
60		CA2359.5	85.37
61	Technical Seminar	CA2360.1	79.27
62		CA2360.2	80.00
63		CA2360.3	79.52
64		CA2360.4	80.00
65		CA2360.5	77.80
66	Comprehensive Viva	CA2361.1	80.00
67		CA2361.2	75.37
68		CA2361.3	75.61
69		CA2361.4	80.00
70		CA2361.5	75.61
71	Project Work	CA2362.1	76.59
72		CA2362.2	79.76
73		CA2362.3	75.37
73		CA2362.4	78.05
74		CA2362.5	77.07

Attainment Calculations of COs through DA & IDA

ATTAINMENT CALCULATIONS OF COs OF FIRST YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH							
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
I SEMESTER - THEORY COURSES							
1	Mathematics-I	A2001.1	60.89	8.85	69.74	60.00	YES
2		A2001.2	63.31	8.62	71.93	60.00	YES
3		A2001.3	58.60	8.82	67.42	60.00	YES
4		A2001.4	50.26	9.22	59.48	60.00	NO
5		A2001.5	63.03	8.69	71.72	60.00	YES
6	Engineering Physics	A2002.1	62.29	8.29	70.58	60.00	YES
7		A2002.2	52.76	8.22	60.98	60.00	YES
8		A2002.3	57.59	8.55	66.14	60.00	YES
9		A2002.4	73.40	8.78	82.18	60.00	YES
10		A2002.5	63.89	8.91	72.80	60.00	YES
11	Engineering Chemistry	A2003.1	57.62	8.44	66.06	60.00	YES
12		A2003.2	70.03	8.36	78.39	60.00	YES
13		A2003.3	58.82	8.58	67.40	60.00	YES
14		A2003.4	60.89	8.69	69.58	60.00	YES
15		A2003.5	66.00	8.87	74.87	60.00	YES
16	Computer Programming	A2501.1	49.90	9.55	59.44	60.00	NO
17		A2501.2	43.89	8.65	52.55	60.00	NO
18		A2501.3	43.39	8.49	51.88	60.00	NO
19		A2501.4	37.98	8.82	46.79	60.00	NO
20		A2501.5	42.45	9.02	51.47	60.00	NO
21	Engineering Mechanics-I	A2301.1	56.12	8.36	64.49	60.00	YES
22		A2301.2	46.72	8.47	55.19	60.00	NO
23		A2301.3	54.97	8.15	63.11	60.00	YES
24		A2301.4	66.27	8.65	74.93	60.00	YES
25		A2301.5	55.59	8.87	64.47	60.00	YES
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
I SEMESTER - LABORATORY COURSES							
26	Engineering Drawing-I	A2302.1	73.48	8.36	81.84	60.00	YES
27		A2302.2	73.48	8.51	81.99	60.00	YES
28		A2302.3	73.48	8.45	81.93	60.00	YES
29		A2302.4	73.48	8.55	82.03	60.00	YES
30		A2302.5	73.48	8.93	82.41	60.00	YES
31	Engineering Physics & Engineering Chemistry Lab	A2008.1	84.39	8.36	92.75	60.00	YES
32		A2008.2	84.39	8.51	92.90	60.00	YES
33		A2008.3	84.39	8.45	92.84	60.00	YES
34		A2008.4	84.39	8.55	92.93	60.00	YES
35		A2008.5	84.39	8.95	93.33	60.00	YES
36		A2008.6	84.39	8.89	93.28	60.00	YES
37	Computer Programming Lab	A2502.1	71.50	7.85	79.36	60.00	YES
38		A2502.2	71.50	8.27	79.78	60.00	YES
39		A2502.3	71.50	8.56	80.07	60.00	YES
40		A2502.4	71.50	8.84	80.34	60.00	YES
41		A2502.5	71.50	8.76	80.27	60.00	YES
42		A2502.6	71.50	8.85	80.36	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF SECOND YEAR COURSES THROUGH DA & IDA FOR 2014-2018 BATCH							
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
III SEMESTER - THEORY COURSES							
1	Mechanics of Solids	CA2307.1	49.42	8.71	58.12	60.00	NO
2		CA2307.2	53.26	8.35	61.61	60.00	YES
3		CA2307.3	49.23	8.69	57.91	60.00	NO
4		CA2307.4	52.02	8.53	60.55	60.00	YES
5		CA2307.5	45.25	8.55	53.80	60.00	NO
6	Mechanics of Fluids	C A2308.1	51.53	8.12	59.65	60.00	NO
7		CA2308.2	54.48	8.04	62.52	60.00	YES
8		C A2308.3	50.95	8.39	59.34	60.00	NO
9		C A2308.4	56.22	8.65	64.87	60.00	YES
10		C A2308.5	57.12	8.78	65.90	60.00	YES
11	Thermodynamics	C A2309.1	28.52	8.27	36.79	60.00	NO
12		C A2309.2	60.30	8.20	68.49	60.00	YES
13		C A2309.3	62.29	8.47	70.76	60.00	YES
14		C A2309.4	28.52	8.55	37.07	60.00	NO
15		C A2309.5	65.09	8.78	73.87	60.00	YES
16	Metallurgy & Material Science	C A2310.1	53.81	8.18	61.99	60.00	YES
17		C A2310.2	49.23	8.16	57.39	60.00	NO
18		C A2310.3	50.14	8.33	58.47	60.00	NO
19		C A2310.4	44.11	8.69	52.80	60.00	NO
20		C A2310.5	54.64	8.90	63.54	60.00	YES
21	Environmental Science	C A2011.1	72.34	8.20	80.54	60.00	YES
22		C A2011.2	63.12	8.31	71.43	60.00	YES
23		C A2011.3	73.67	8.00	81.67	60.00	YES
24		C A2011.4	30.70	8.55	39.25	60.00	NO
25		C A2011.5	68.08	8.78	76.86	60.00	YES
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
III SEMESTER - LABORATORY COURSES							
26	Machine Drawing	C A2311.1	79.55	8.24	87.78	60.00	YES
27		C A2311.2	79.55	8.39	87.94	60.00	YES
28		C A2311.3	79.55	8.33	87.88	60.00	YES
29		C A2311.4	79.55	8.43	87.98	60.00	YES
30		C A2311.5	79.55	8.80	88.35	60.00	YES
31	MOS/MMS Lab	C A2312.1	85.00	8.24	93.24	60.00	YES
32		C A2312.2	85.00	8.39	93.39	60.00	YES
33		C A2312.3	85.00	8.33	93.33	60.00	YES
34		C A2312.4	85.00	8.43	93.43	60.00	YES
35		C A2312.5	85.00	8.80	93.80	60.00	YES
36	Fuels and Lubrication Lab	C A2313.1	85.00	7.69	92.69	60.00	YES
37		C A2313.2	85.00	8.14	93.14	60.00	YES
38		C A2313.3	85.00	8.45	93.45	60.00	YES
39		C A2313.4	85.00	8.82	93.82	60.00	YES
40		C A2313.5	85.00	8.82	93.82	60.00	YES

S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
IV SEMESTER - THEORY COURSES							
41	Managerial Economics and Financial Analysis	CA2012.1	58.59	8.17	66.76	60.00	YES
42		CA2012.2	59.72	8.29	68.01	60.00	YES
43		CA2012.3	47.78	8.40	56.18	60.00	NO
44		CA2012.4	51.62	8.46	60.08	60.00	YES
45		CA2012.5	51.08	8.75	59.83	60.00	NO
46	Thermal Engineering – I	CA2314.1	53.77	8.21	61.98	60.00	YES
47		CA2314.2	59.32	7.98	67.30	60.00	YES
48		CA2314.3	50.89	8.27	59.17	60.00	NO
49		CA2314.4	57.03	8.77	65.80	60.00	YES
50		CA2314.5	67.71	8.75	76.46	60.00	YES
51	Manufacturing Technology– I	CA2315.1	65.04	8.21	73.25	60.00	YES
52		CA2315.2	65.06	8.44	73.49	60.00	YES
53		CA2315.3	64.22	8.48	72.70	60.00	YES
54		CA2315.4	64.08	8.58	72.66	60.00	YES
55		CA2315.5	59.10	8.79	67.89	60.00	YES
56	Hydraulic Machinery and Systems	CA2316.1	61.29	8.38	69.66	60.00	YES
57		CA2316.2	59.03	8.27	67.30	60.00	YES
58		CA2316.3	29.09	8.40	37.49	60.00	NO
58		CA2316.4	60.85	8.56	69.41	60.00	YES
59		CA2316.5	64.01	8.56	72.58	60.00	YES
60	Kinematics of Machinery	CA2317.1	57.79	8.92	66.71	60.00	YES
61		CA2317.2	57.43	8.46	65.89	60.00	YES
62		CA2317.3	65.43	8.27	73.70	60.00	YES
63		CA2317.4	61.29	8.58	69.88	60.00	YES
64		CA2317.5	66.08	8.50	74.58	60.00	YES
65	Electrical Technology	CA2213.1	58.33	8.33	66.66	60.00	YES
66		CA2213.2	56.94	8.46	65.40	60.00	YES
67		CA2213.3	59.01	8.52	67.53	60.00	YES
68		CA2213.4	60.79	8.75	69.54	60.00	YES
IV SEMESTER - LABORATORY COURSES							
69	Fluid Mechanics and Hydraulic Machinery Lab	CA2318.1	80.40	8.40	88.80	60.00	YES
70		CA2318.2	80.40	8.29	88.70	60.00	YES
71		CA2318.3	80.40	8.46	88.86	60.00	YES
72		CA2318.4	80.40	8.63	89.03	60.00	YES
73		CA2318.5	80.40	8.75	89.15	60.00	YES
74	Electrical Technology Lab	CA2214.1	69.52	8.17	77.69	60.00	YES
75		CA2214.2	69.52	8.31	77.83	60.00	YES
76		CA2214.3	69.52	8.40	77.91	60.00	YES
77		CA2214.4	69.52	8.46	77.98	60.00	YES

ATTAINMENT CALCULATIONS OF COs OF THIRD YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH							
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
V SEMESTER - THEORY COURSES							
1	Dynamics of Machinery	CA2319.1	54.91	8.78	63.69	60.00	YES
2		CA2319.2	53.59	8.41	62.00	60.00	YES
3		CA2319.3	59.05	8.80	67.84	60.00	YES
4		CA2319.4	57.23	8.59	65.83	60.00	YES
5		CA2319.5	65.51	8.61	74.13	60.00	YES
6	Manufacturing Technology-II	C A2320.1	53.34	8.08	61.42	60.00	YES
7		C A2320.2	52.66	8.08	60.74	60.00	YES
8		C A2320.3	50.65	8.41	59.06	60.00	NO
9		C A2320.4	50.09	9.12	59.21	60.00	NO
10		C A2320.5	45.60	8.82	54.41	60.00	NO
11	Thermal Engineering - II	C A2321.1	42.80	8.24	51.05	60.00	NO
12		C A2321.2	51.47	8.24	59.72	60.00	NO
13		C A2321.3	44.43	8.53	52.96	60.00	NO
14		C A2321.4	50.12	9.06	59.18	60.00	NO
15		C A2321.5	44.66	8.82	53.48	60.00	NO
16	Design of Machine Members - I	C A2322.1	57.37	8.18	65.55	60.00	YES
17		C A2322.2	56.02	8.16	64.19	60.00	YES
18		C A2322.3	68.35	8.39	76.74	60.00	YES
19		C A2322.4	61.76	8.76	70.51	60.00	YES
20		C A2322.5	57.70	8.94	66.64	60.00	YES
21	Metrology and Instrumentation Engineering	C A2323.1	64.89	8.20	73.09	60.00	YES
22		C A2323.2	59.41	8.29	67.70	60.00	YES
23		C A2323.3	50.29	8.86	59.15	60.00	NO
24		C A2323.4	63.21	8.59	71.81	60.00	YES
25		C A2323.5	65.82	8.84	74.66	60.00	YES
26	Management Science	C A2013.1	30.05	8.31	38.36	60.00	NO
27		C A2013.2	65.10	8.37	73.47	60.00	YES
28		C A2013.3	56.34	8.06	64.41	60.00	YES
29		C A2013.4	68.95	8.67	77.62	60.00	YES
30		C A2013.5	61.14	8.84	69.97	60.00	YES
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
V SEMESTER - LABORATORY COURSES							
31	Thermal Engineering Lab	C A2324.1	88.21	8.29	96.49	60.00	YES
32		C A2324.2	88.21	8.45	96.66	60.00	YES
33		C A2324.3	88.21	8.39	96.60	60.00	YES
34		C A2324.4	88.21	8.45	96.66	60.00	YES
35		C A2324.5	88.21	8.86	97.07	60.00	YES
31	Manufacturing Technology Lab	C A2325.1	89.33	8.20	97.53	60.00	YES
32		C A2325.2	89.33	8.45	97.77	60.00	YES
33		C A2325.3	89.33	8.35	97.67	60.00	YES
34		C A2325.4	89.33	8.45	97.77	60.00	YES
35		C A2325.5	89.33	8.84	98.16	60.00	YES

S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
VI SEMESTER - THEORY COURSES							
36	Probability and Statistics	CA2014.1	48.76	8.17	56.93	60.00	NO
37		CA2014.2	49.90	9.68	59.58	60.00	NO
38		CA2014.3	56.49	8.40	64.90	60.00	YES
39		CA2014.4	49.17	9.75	58.92	60.00	NO
40		CA2014.5	51.01	9.04	60.05	60.00	YES
41	Nonconventional Energy Sources	CA2326.1	29.99	8.22	38.21	60.00	NO
42		CA2326.2	65.04	7.94	72.98	60.00	YES
43		CA2326.3	56.28	8.28	64.56	60.00	YES
44		CA2326.4	68.89	8.79	77.68	60.00	YES
45		CA2326.5	61.08	8.77	69.84	60.00	YES
46	Design of Machine Members – II	CA2327.1	31.46	8.21	39.67	60.00	NO
47		CA2327.2	58.26	8.45	66.71	60.00	YES
48		CA2327.3	68.39	8.49	76.88	60.00	YES
49		CA2327.4	74.70	8.60	83.30	60.00	YES
50		CA2327.5	51.35	8.81	60.16	60.00	YES
51	Heat Transfer	CA2328.1	58.60	8.38	66.98	60.00	YES
52		CA2328.2	49.35	9.56	58.91	60.00	NO
53		CA2328.3	55.44	8.40	63.85	60.00	YES
53		CA2328.4	58.60	8.57	67.17	60.00	YES
54		CA2328.5	50.97	9.47	60.44	60.00	YES
55	Finite Element Methods	CA2329.1	19.09	8.38	27.47	60.00	NO
56		CA2329.2	19.09	8.28	27.36	60.00	NO
57		CA2329.3	49.12	9.85	58.97	60.00	NO
57		CA2329.4	55.75	8.57	64.32	60.00	YES
58		CA2329.5	51.35	9.13	60.48	60.00	YES
55	Digital Electronics and Microprocessors	CA2448.1	73.37	8.91	82.29	60.00	YES
56		CA2448.2	74.38	8.43	82.80	60.00	YES
57		CA2448.3	71.10	8.28	79.37	60.00	YES
58		CA2448.4	74.27	8.64	82.91	60.00	YES
59	Air Pollution and Control Methodologies	CA2154.1	76.48	8.38	84.86	60.00	YES
60		CA2154.2	70.86	8.38	79.24	60.00	YES
61		CA2154.3	71.43	8.47	79.90	60.00	YES
62		CA2154.4	75.30	8.49	83.79	60.00	YES
63		CA2154.5	74.91	8.77	83.68	60.00	YES
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
VI SEMESTER - LABORATORY COURSES							
64	Heat Transfer Lab	CA2331.1	82.16	8.45	90.61	60.00	YES
65		CA2331.2	82.16	8.30	90.46	60.00	YES
66		CA2331.3	82.16	8.47	90.63	60.00	YES
67		CA2331.4	82.16	8.64	90.80	60.00	YES
68		CA2331.5	82.16	8.77	90.93	60.00	YES
69	Metrology & Instrumentation Lab	CA2332.1	82.01	8.21	90.23	60.00	YES
70		CA2332.2	82.01	8.32	90.33	60.00	YES
71		CA2332.3	82.01	8.40	90.42	60.00	YES
71		CA2332.4	82.01	8.47	90.48	60.00	YES
72		CA2332.5	82.01	8.47	90.48	60.00	YES

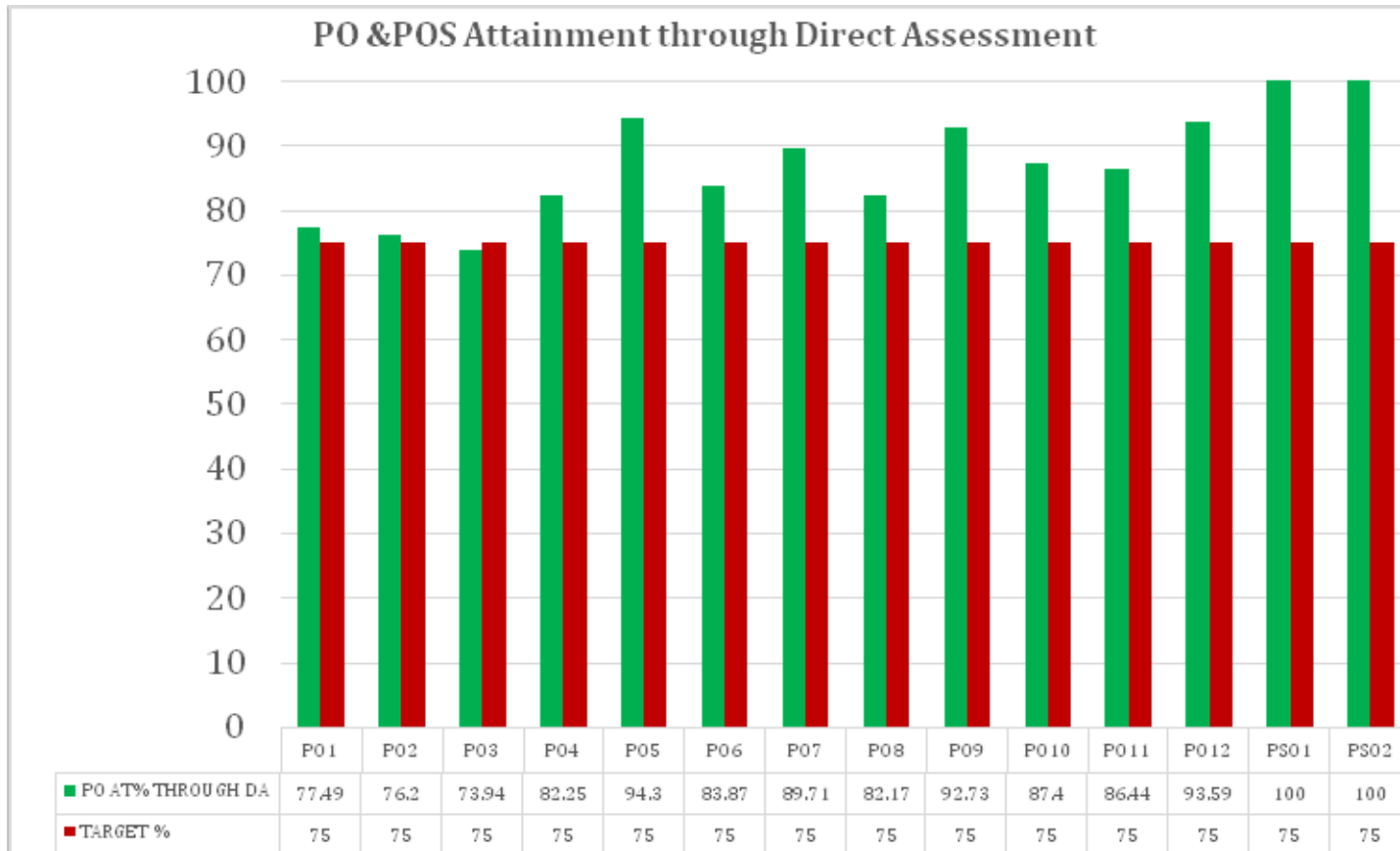
ATTAINMENT CALCULATIONS OF COs OF FOURTH YEAR COURSES THROUGH SEE & CIE FOR 2014-2018 BATCH							
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
VII SEMESTER - THEORY COURSES							
1	Operations Research	CA2333.1	36.95	8.63	45.58	60.00	NO
2		CA2333.2	62.24	8.53	70.78	60.00	YES
3		CA2333.3	66.08	8.77	74.84	60.00	YES
4		CA2333.4	69.14	8.63	77.77	60.00	YES
5		CA2333.5	74.00	8.70	82.70	60.00	YES
6	Computer Aided Design and Manufacturing	C A2334.1	45.26	8.14	53.40	60.00	NO
7		C A2334.2	53.81	8.37	62.18	60.00	YES
8		C A2334.3	48.95	8.53	57.49	60.00	NO
9		C A2334.4	61.65	8.63	70.28	60.00	YES
10		C A2334.5	52.98	8.98	61.96	60.00	YES
11	Computational Fluid Dynamics	C A2335.1	78.23	8.28	86.51	60.00	YES
12		C A2335.2	76.49	8.23	84.72	60.00	YES
13		C A2335.3	75.89	8.56	84.45	60.00	YES
14		C A2335.4	75.76	8.51	84.27	60.00	YES
15		C A2335.5	76.35	8.93	85.28	60.00	YES
16	Refrigeration and Air Conditioning	C A2336.1	67.87	8.28	76.15	60.00	YES
17		C A2336.2	61.34	8.19	69.53	60.00	YES
18		C A2336.3	63.06	8.60	71.66	60.00	YES
19		C A2336.4	62.54	8.74	71.29	60.00	YES
20		C A2336.5	63.42	8.93	72.35	60.00	YES
21	Entrepreneurship	C A2017.1	79.42	8.12	87.54	60.00	YES
22		C A2017.2	77.24	8.49	85.72	60.00	YES
23		C A2017.3	81.35	8.28	89.63	60.00	YES
24		C A2017.4	81.21	8.65	89.86	60.00	YES
25		C A2017.5	80.90	8.91	89.80	60.00	YES
26	Automobile Engineering	C A2337.1	64.03	8.37	72.40	60.00	YES
27		C A2337.2	60.55	8.56	69.11	60.00	YES
28		C A2337.3	64.19	8.33	72.52	60.00	YES
29		C A2337.4	65.85	8.60	74.45	60.00	YES
30		C A2337.5	63.07	8.91	71.98	60.00	YES
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
VII SEMESTER - LABORATORY COURSES							
31	Computer Aided Design and Manufacturing Lab	C A2343.1	87.37	8.19	95.55	60.00	YES
32		C A2343.2	87.37	8.28	95.65	60.00	YES
33		C A2343.3	87.37	8.65	96.02	60.00	YES
34		C A2343.4	87.37	8.70	96.07	60.00	YES
35		C A2343.5	87.37	9.00	96.37	60.00	YES
31	Theory of Machines Lab	C A2344.1	90.00	7.40	97.40	60.00	YES
32		C A2344.2	90.00	7.71	97.71	60.00	YES
33		C A2344.3	90.00	7.51	97.51	60.00	YES
34		C A2344.4	90.00	7.74	97.74	60.00	YES
35		C A2344.5	90.00	7.95	97.95	60.00	YES
36	Mini Project	C A2345.1	90.00	7.53	97.53	60.00	YES
37		C A2345.2	90.00	8.00	98.00	60.00	YES

38		CA2345.3	90.00	7.58	97.58	60.00	YES
39		CA2345.4	90.00	7.93	97.93	60.00	YES
40		CA2345.5	90.00	7.86	97.86	60.00	YES
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
VIII SEMESTER - THEORY COURSES							
41	Mechanical Vibrations and Structural Dynamics	CA2346.1	61.53	8.20	69.73	60.00	YES
42		CA2346.2	29.85	8.20	38.05	60.00	NO
43		CA2346.3	61.41	8.56	69.97	60.00	YES
44		CA2346.4	65.20	8.49	73.68	60.00	YES
45		CA2346.5	67.35	8.98	76.33	60.00	YES
46	Power plant Engineering	CA2349.1	70.63	8.44	79.07	60.00	YES
47		CA2349.2	69.09	7.73	76.82	60.00	YES
48		CA2349.3	70.60	8.24	78.84	60.00	YES
49		CA2349.4	71.04	8.95	79.99	60.00	YES
50		CA2349.5	71.26	8.68	79.94	60.00	YES
51	Total Quality Management	CA2353.1	74.63	8.29	82.92	60.00	YES
52		CA2353.2	72.45	8.73	81.19	60.00	YES
53		CA2353.3	77.97	8.85	86.83	60.00	YES
54		CA2353.4	71.72	8.78	80.50	60.00	YES
55		CA2353.5	65.10	8.83	73.93	60.00	YES
S. No.	Course Name & Code	CO#	90% OF Total CO AT through DA	10% OF Total CO AT through IDA	Total CO AT through DA & IDA in %	Target AT in %	CO Attained (YES/NO)
VIII SEMESTER - LABORATORY COURSES							
56	Simulations Lab	CA2359.1	89.47	8.32	97.79	60.00	YES
57		CA2359.2	89.47	8.34	97.82	60.00	YES
58		CA2359.3	89.47	8.10	97.57	60.00	YES
59		CA2359.4	89.47	8.20	97.67	60.00	YES
60		CA2359.5	89.47	8.54	98.01	60.00	YES
61	Technical Seminar	CA2360.1	90.00	7.93	97.93	60.00	YES
62		CA2360.2	90.00	8.00	98.00	60.00	YES
63		CA2360.3	90.00	7.95	97.95	60.00	YES
64		CA2360.4	90.00	8.00	98.00	60.00	YES
65		CA2360.5	90.00	7.78	97.78	60.00	YES
66	Comprehensive Viva	CA2361.1	90.00	8.00	98.00	60.00	YES
67		CA2361.2	90.00	7.54	97.54	60.00	YES
68		CA2361.3	90.00	7.56	97.56	60.00	YES
69		CA2361.4	90.00	8.00	98.00	60.00	YES
70		CA2361.5	90.00	7.56	97.56	60.00	YES
71	Project Work	CA2362.1	90.00	7.66	97.66	60.00	YES
72		CA2362.2	90.00	7.98	97.98	60.00	YES
73		CA2362.3	90.00	7.54	97.54	60.00	YES
73		CA2362.4	90.00	7.80	97.80	60.00	YES
74		CA2362.5	90.00	7.71	97.71	60.00	YES

52	COMPUTATIONAL FLUID DYNAMICS	A2335	61.13	42.94	69.49											
53	REFRIGERATION AND AIR CONDITONING	A2336						88.42	88.19		90.36					
54	ENTREPRENEURSHIP	A2017	71.94													
55	AUTOMOBILE ENGINEERING	A2337	75.43	75.75			75.33									
56	CAD/CAM LAB	A2343	100	100			100									
57	THEORY OF MACHINES LAB	A2344	100	100			100	100	100		100	100	100	100		
58	MINI PROJECT	A2345		64.38	70.16		73.01									
59	MECHANICAL VIBRATIONS AND STRUCTURAL DYNAMICS	A2346	61.13	42.94	69.49											
60	POWER PLANT ENGINEERING	A2349	78.39	77.18	78.16				74.56							
61	TOTAL QUALITY MANAGEMENT	A2353	95.95				95.95	95.95								
62	SIMULATION LAB	A2359	100	100				100		100			100		100	100
63	TECHNICAL SEMINAR	A2360	100	100				100								
64	COMPREHENSIVE VIVA	A2361	100	100				100	100	100		100	100	100	100	100
65	PROJECT WORK	A2362	100	100	100			100	100	100	89				100	100
TOTAL PO DIRECT ATTAINMENTS IN %			77.49	76.20	73.94		82.25	94.30	83.87	89.71	82.17	92.73	87.40	86.44	93.59	100.00

Summary of POs & PSOs Attainments through Direct Assessment

PO #	PO AT% THROUGH DA	TARGET %	ATTAINED (YES/NO)
P01	77.49	75	YES
P02	76.20	75	YES
P03	73.94	75	NO
P04	82.25	75	YES
P05	94.30	75	YES
P06	83.87	75	YES
P07	89.71	75	YES
P08	82.17	75	YES
P09	92.73	75	YES
P010	87.40	75	YES
P011	86.44	75	YES
P012	93.59	75	YES
PS01	100.00	75	YES
PS02	100.00	75	YES



Complete PO & PSO attainments through direct Assessment

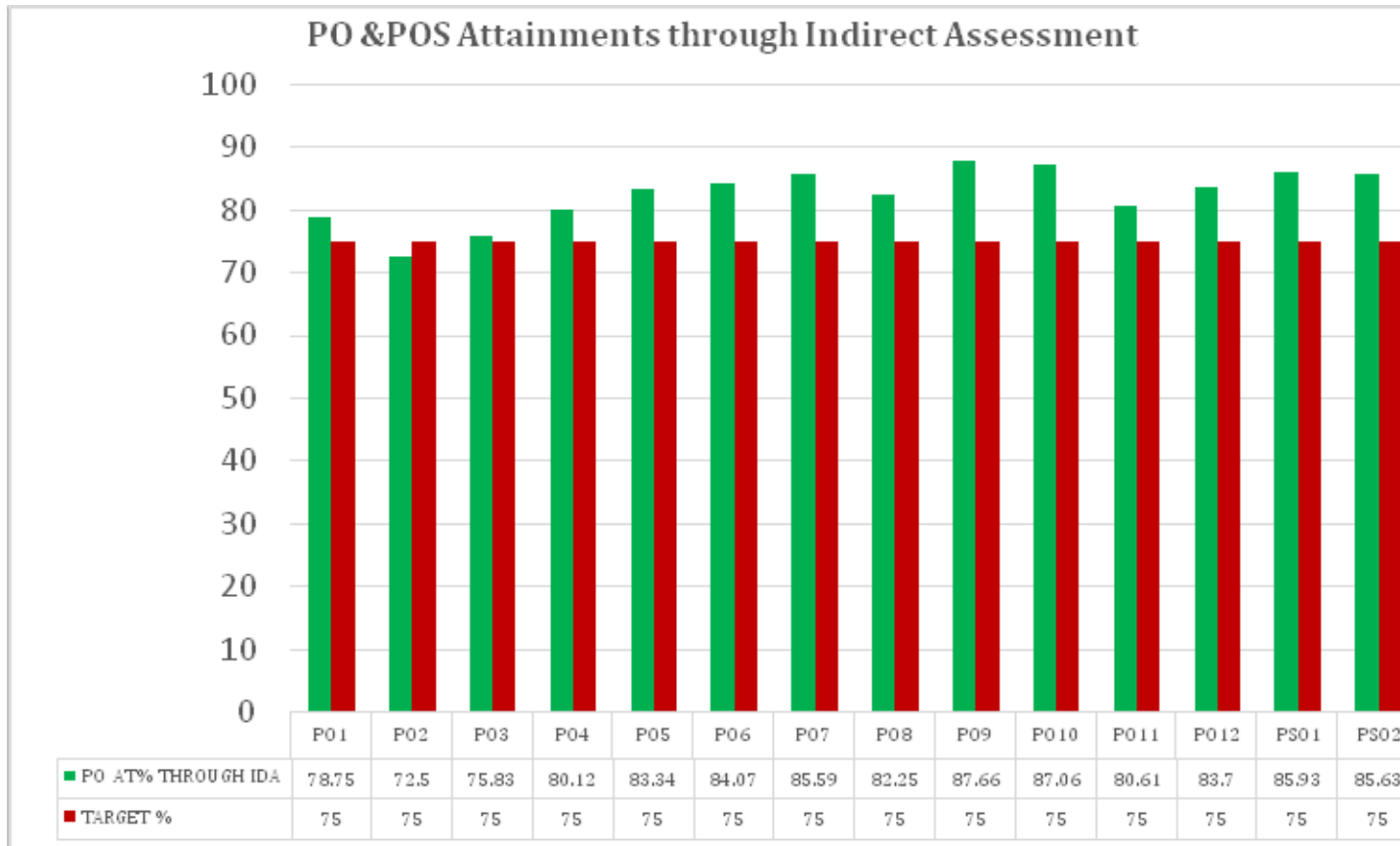
Conclusions: All the assessment tools and content delivery methods used proved to be effective and helped in the desired Attainment .

Complete PO & PSO attainments through Indirect Assessment

COMPLETE PO & PSO ATTAINMENTS THROUGH <i>INDIRECT ASSESSMENT</i>															
S.NO.	SURVEY	PO&PSO AT Through IDA in %													
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	Student Exit Survey	78.75	72.5	75.83	74.58	74.17	74.17	76.17	73.62	76.17	74.04	69.57	74.89	82.3	81
2	Co-Curricular Activities				85.65	92.50	85.80	91.25		94.56	92.50		87.88	89.56	90.15
3	Extra-Curricular Activities						92.25	89.35	90.87	92.25	94.65	91.65	88.33		
TOTAL PO & PSO ATTAINMENT IN % THROUGH INDIRECT ASSESSMENT		78.75	72.50	75.83	80.12	83.34	84.07	85.59	82.25	87.66	87.06	80.61	83.70	85.93	85.63

**Summary of POs & PSOs Attainments Through
Indirect Assessment**

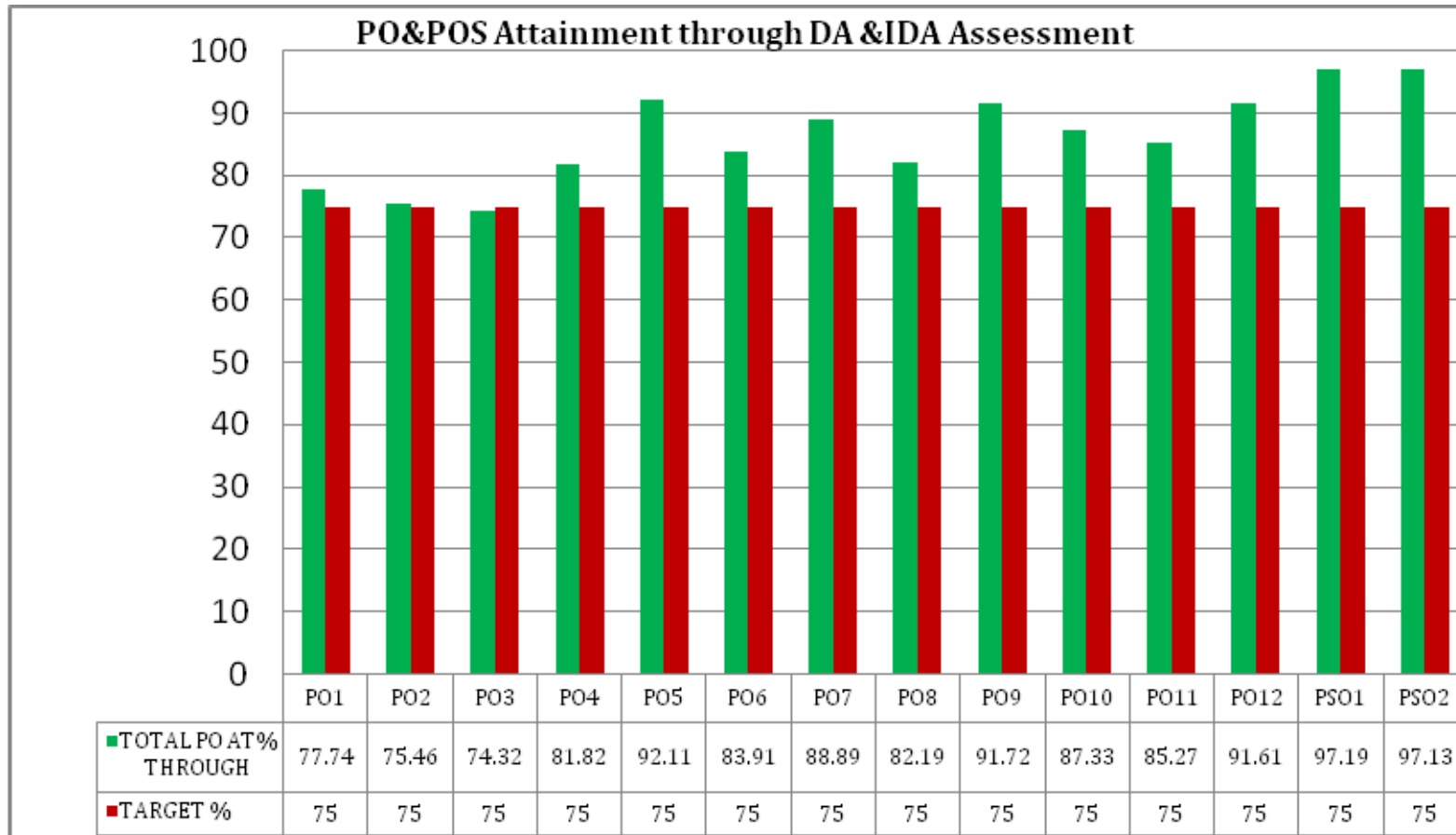
PO #	PO AT% THROUGH IDA	TARGET %	ATTAINED (YES/NO)
P01	78.75	75	YES
P02	72.50	75	NO
P03	75.83	75	YES
P04	80.12	75	YES
P05	83.34	75	YES
P06	84.07	75	YES
P07	85.59	75	YES
P08	82.25	75	YES
P09	87.66	75	YES
P010	87.06	75	YES
P011	80.61	75	YES
P012	83.70	75	YES
PS01	85.93	75	YES
PS02	85.63	75	YES



Complete PO & PSO attainments through Indirect Assessment

**Summary of POs & PSOs Attainments through
Direct & Indirect Assessment**

PO #	PO AT% THROUGH DA 80%	PO AT% THROUGH IDA 20%	TOTAL PO AT% THROUGH	TARGET %	ATTAINED (YES/NO)
P01	61.99	15.75	77.74	75	YES
P02	60.96	14.50	75.46	75	YES
P03	59.15	15.17	74.32	75	NO
P04	65.80	16.02	81.82	75	YES
P05	75.44	16.67	92.11	75	YES
P06	67.10	16.81	83.91	75	YES
P07	71.77	17.12	88.89	75	YES
P08	65.74	16.45	82.19	75	YES
P09	74.18	17.53	91.72	75	YES
P010	69.92	17.41	87.33	75	YES
P011	69.15	16.12	85.27	75	YES
P012	74.87	16.74	91.61	75	YES
PS01	80.00	17.19	97.19	75	YES
PS02	80.00	17.13	97.13	75	YES



Complete PO & PSO attainments through direct & Indirect Assessment