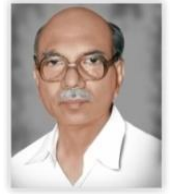




P.B.R. VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE

(Affiliated to J.N.T.U.A, Approved by AICTE and Accredited by NAAC)

KAVALI – 524201, S.P.S.R Nellore Dist., A.P. India. Ph: 08626-243930



2.6.2.

Attainment of Programme outcomes and course outcomes are evaluated by the institution.

CO ATTAINMENT

Course Name:	LINEAR INTEGRATED CIRCUITS AND APPLICATIONS	
Course Code:	15A04503	C314
Session of Course:	JULY 2021 TO NOV 2021	
L:T:P	03:01:00	
Year/Semester	III/I	
Credits:	3	
Batch:	2018-2022	

CO MAPPING

COURSE OUTCOMES			Test-1	Test-2
C314.1	Explain the construction and characteristics of the operational-amplifiers		1,2,3	
C314.2	Analyze the feedback and its effect on the performance of op-amp.		1,4,5	
C314.3	Develop knowledge on some linear applications of Op-amp and on the design of active filters using Op-amps			1,3
C314.4	Design various waveform generators using Op-amp, 555 Timer and PLL			1,5
C314.5	Analyze data converter (ADC and DAC) Circuits using Op amps.			1,2,4

COs ATTAINMENT:

CO	CO Attainment Values						External Attainment level	Direct Attainment levels	Indirect (CES) Attainment Level	CO Attained	% CO Attained
	Question wise										
C314.1	3.00	3.00	1.00				1.00	1.40	2.85	1.83	61.16
C314.2	3.00	1.00	1.00				1.00	1.20	2.89	1.71	56.91
C314.3	3.00	1.00					1.00	1.30	2.94	1.79	59.71
C314.4	3.00	2.00					1.00	1.45	2.93	1.89	63.11
C314.5	3.00	3.00	1.00				1.00	1.40	2.90	1.85	61.63

CO ATTAINMENT ANALYSIS: Target Level: 1.95

Based on the above result all CO's had reached the target level.

Remarks:	CO1: Students have given less emphasis on constant current bias circuit. CO2: Students have given less emphasis frequency compensation techniques. CO3: Students have given less emphasis on design of active filters. CO4: students have given less emphasis on PLL. CO5: students have given less emphasis on data converters.
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Action Suggested:	1. Maintain the target for the next academic year as 1.95. 2. Students should be instructed to learn all the topics.
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PO ATTAINMENT

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attained Levels
CO1	3	2	2									3	3	3	1.83
CO2	3	3	3	1								3	3	3	1.71
CO3	3	2	2	1								3	3	3	1.79
CO4	3	3	3	1								3	3	3	1.89
CO5	3	3	3	1								3	3	3	1.85
TOTAL	5	5	5	4	0	0	0	0	0	0	0	5	5	5	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Sum of CO*PO	9.08	7.87	7.87	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.08	9.08	9.08
CO-PO LEVEL	1.82	1.58	1.58	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	1.82	1.82
% CO-PO	60.67	52.67	52.67	20.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.67	60.67	60.67

Signature of the Faculty

Signature

HOD
Dr. Anandharama Murugan
Technology & Science
TAVAI



PARVATHAREDDY BABUL REDDY
VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
		10	10	10	10	10	10	10	10	10	10	70
		5	5	5	5	5	5	5	5	5	5	25
1	18731A0401	10	9		9		10	10		9		44
2	18731A0403	10	10		4	10	10		10	10		44
3	18731A0404	10	10		10		10	9			10	40
4	18731A0405	10	10		9		10	10			9	36
5	18731A0408	10	4		4		10	9		10		27
6	18731A0409	5	4				10	8		6		29
7	18731A0410	9	5		3		9	9			8	38
8	18731A0411	10	10		10	1	10	10	9	9		43
9	18731A0412	8	6		3		10	9	2		7	39
10	18731A0413	10	10		9		10	10			10	40
11	18731A0414	10	10			10	10	10			8	41
12	18731A0415	9	9		10		10	10			10	43
13	18731A0416	10	10		9		10	10			9	30
14	18731A0417	10	5			3	10	10			9	30
15	18731A0418						9					9
16	18731A0419	10	10		9		10	9			10	56
17	18731A0420	10	10		8		10	10			10	33
18	18731A0421	9	5		2		10	9	3		7	32
19	18731A0422	10	8		7		10	9				36
20	18731A0423	10	9		2	7	10	9			10	45
21	18731A0424	4	4		4		8	7		2		29
22	18731A0425	9	9		5		10	10				33
23	18731A0426	9	6		8		10	9			7	36
24	18731A0427	0					10	2				29
25	18731A0428	9	8		7		10		10		9	44
26	18731A0429	5	4		7		8	5		9		25
27	18731A0430	10	5		8		10	8		9		35
28	18731A0431	10	9		4	8	9	9				34
29	18731A0432	9		2	2		10	8				5
30	18731A0433	10	9				10		10		10	46
31	18731A0434	5	5		3		10	9			7	26
32	18731A0435	4				2	8	3		2		8
33	18731A0436	10	9		6		6	9			8	37
34	18731A0437	9	9		8		10	9			5	34

S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
35	18731A0438	10	10		10		10	10			8	36
36	18731A0439	9	6		4		9	8			8	36
37	18731A0440	10	8		10	9	8	10			10	42
38	18731A0442	10	10		9		10	8			2	28
39	18731A0443	4	7		4		9	4				31
40	18731A0444	10	7		9		10	9		8	4	62
41	18731A0445	9	10		10		7	9			9	64
42	18731A0446	10		9		9	10	10		9		65
43	18731A0447	10	9			8	10	9			8	40
44	18731A0448	10	9		3		10	10				50
45	18731A0449	10	7			4	10	10			10	62
46	18731A0450	10	10		4	9	10	10			9	64
47	18731A0451	8	9		9		10	9		5		49
48	18731A0453	9	8		8		10	10			4	34
49	18731A0454	10		5	5		10	9			10	48
50	18731A0455	9	10		9		10	10			10	57
51	18731A0456	10	8		8	9	10	9	2		9	50
52	18731A0457	8	4		2		9	9				32
53	18731A0458	9	8		6							41
54	18731A0459	10	10		9		10	10			10	50
55	18731A0460	10	9		9		10	10		8		40
56	18731A0461	10	4		3	4	10	10			9	61
57	18731A0462	9	6		8	5	10	10			6	43
58	18731A0463	9	9		9		10	10			9	61
59	18731A0464	10	4		8		9	9			7	59
60	18731A0465	4	3		2		9	8		6		28
61	18731A0466	10	7		5		10	10			1	49
62	18731A0467	5	4		2		10	5				41
63	18731A0468	10	7		8		10	9			3	46
64	18731A0469	9	10			9	10	9			9	60
65	18731A0470	10	8		9		10	8	3		8	51
66	18731A0471	7			7	7	10	7		5		26
67	18731A0472	9	10		9		10	9			9	47
68	18731A0473	10	4		4		9	8			6	44
69	18731A0474	9	9		6		9	9		5		40
70	18731A0475			10			9	9			4	25
71	18731A0476	10	4		4		10	10			5	39
72	18731A0477	6	6	4	10		10	10			9	48
73	18731A0478	10	8		9		10	9			10	56

S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
		10	10	10	10	10	10	10	10	10	10	70
		5	5	5	5	5	5	5	5	5	5	25
74	18731A0479	10	10		10	5	10	10			10	34
75	18731A0480	7	8		6		9	8		5		31
76	18731A0481	6	5		6		10	9		9		45
77	18731A0482	10	9		10	9	10	9	10		6	51
78	18731A0483	10	9		10		10	10			2	32
79	18731A0484	8	9		6		10	10			10	53
80	18731A0485	10	9		7		10	9			8	63
81	18731A0486	9		9	4		10	10			8	46
82	18731A0487	10	8		9	5	10	10			10	54
83	18731A0488	10	8		8		10	10			9	38
84	18731A0489	10	8		9	9	10	10			10	57
85	18731A0490	10	10		9		10	9			9	53
86	18731A0492	10	6		8		10	9		2		35
87	18731A0493	10	5		8		10	6		10		38
88	18731A0494	9	7		5		10	9		10		39
89	18731A0495	10	9		10		10	9	7		5	40
90	18731A0496	10	5		6		10	9			5	47
91	18731A0497	10	9		10		10	10			9	45
92	18731A0498	10	10		8		10	9			10	41
93	18731A0499	10	6		7		10	8				38
94	18731A04A0	10	9		7	6	10	9	8		10	40
95	18731A04A1	10	3	4	8		10	7		6		40
96	18731A04A2	10	10		7	8	10	9			9	61
97	18731A04A3	9	10		8		10	9			9	64
98	18731A04A4	8	3			4	10	5		8		31
99	18731A04A5	9	7		4	10	9	9			10	53
100	18731A04A6	10		7		2	9	7				43
101	18731A04A7	5					8					1
102	18731A04A8	10			4		10	3		2		25
103	18731A04B0	9	6		6		10	6		5		33
104	18731A04B2	9	4	5	5		10	10		5	9	67
105	18731A04B3	9	4	3	5		10	6		9		35
106	18731A04B4	7	7		5		10	6		2	1	26
107	18731A04B5	9	6		4		10	8			3	35
108	18731A04B6	10	10		10		10	9			7	33
109	18731A04B7	10	5				10					33
110	18731A04B8	9	7		7		9	5			4	32
111	18731A04B9	8	6				5	8			2	25
112	18731A04C0	10	6	3	9		10	9		3		46

S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
	Max. Marks	10	10	10	10	10	10	10	10	10	10	70
	50% Marks	5	5	5	5	5	5	5	5	5	5	25
113	18731A04C1	10	10		9		10	9			9	43
114	18731A04C2	9					10			2		17
115	18731A04C4	10	10				10			2		1
116	18731A04C5	10	10			10	10	9		7		68
117	18731A04C6	2	4				6	2				7
118	18731A04C7	9	7		6		10	8				38
119	18731A04C8	5		2		2	10		1			3
120	18731A04C9	9	6		7		9					49
121	18731A04D0	1			1		5	5			2	29
122	18731A04D1	8	4	4	4		10	9			9	55
123	18731A04D2	8	7		5		10	9				31
124	18731A04D3	8		3	8		9	6		5		33
125	18731A04D4	10	8		2	4	10	9			9	35
126	18731A04D6	10	8		8	2	9	9		3		37
127	18731A04D7	10	7		7		10	9			6	42
128	18731A04D8	8	10		10		9	6			5	41
129	18731A04D9						10					30
130	18731A04E0	5	3				7	8		4		28
131	18731A04E1	10	4	3	3		10	5		5		38
132	18731A04E3	7					10					26
133	18731A04E5	9	7				10					25
134	18731A04E6	9		2			10		2			27
135	18731A04E7	10	7		7	2	10	9	7		6	33
136	18731A04E8	10	5	2	5		10	8			9	34
137	18731A04E9	6					9					4
138	18731A04F0	9	7				10	5		4		26
139	18731A04F1	1	4				10	1				25
140	18731A04F2	10	9		10		10	9				53
141	18731A04F3	8	9		2		10	2	1	2	1	55
142	18731A04F4	9	7				10				1	29
143	18731A04F5	10	3				10	6				25
144	18731A04F6	1			4		9	4		2		1
145	18731A04F7	10	6		9		10	8		3		33
146	18731A04F8	10			2		10	2				14
147	18731A04F9	10	5		8		9	8			6	32
148	18731A04G0	10	9		4		10	9		7		29
149	18731A04G1	8	3		6		9	9		5		32
150	18731A04G2	10		3	2		10	7			6	25
151	18731A04G3	10	6		7		10	8			6	28


S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
152	18731A04G4	9			4		9	5				33
153	18731A04G5	4	3				10	4				16
154	18731A04G6	8					9	1				13
155	18731A04G7	10	4		5		10	9				44
156	18731A04G8	10		3	4		10	8				26
157	18731A04G9	5					10	5				31
158	18731A04H0	8	5				10	9				25
159	18731A04H2	8	3		3		10	7				25
160	18731A04H3	9			4		10	7				29
161	18731A04H4	9			4		10	7				33
162	18731A04H5	9	7		4		10	9			8	40
163	18731A04H6	9	2		4		10	9			5	41
164	18731A04H7	6		5	1		8	9			5	15
165	18731A04H8	9					10				5	27
166	18731A04H9	9	5		5		9	7		10		25
167	18731A04I0	10	8		8	8	10	9		6		48
168	18731A04I1	10	5			2	10	8		10		6
169	18731A04I2	8	6		1		10	9		1		26
170	18731A04I3	9	9		7		10	5		9		28
171	18731A04I4	7	2				9	3				7
172	18731A04I5	5	7		9		8	9				35
173	18731A04I7	4					10	8		3		16
174	18731A04I8	4	2		4		8	9		7		25
175	18731A04I9	10	2	5	1		10	9		5		27
176	18731A04J0	9	1		3		10	9		2		38
177	18731A04J1		5		4		10	9				29
178	18731A04J2		2				10	3				0
179	18731A04J3	6					8	9		7		27
180	18731A04J4	2			5		8	5			6	8
181	18731A04J5	10		4			10	7		3		10
182	18731A04J6	7	5				10	9		7		36
183	18731A04J7	6		4	4		10	2				2
184	18731A04J9	10		9		6	10	9		7		26
185	18731A04K0	10	9	4	9		10	9		6		45
186	18731A04K1	9	6		4		9	8				25
187	18731A04K2	9					9					1
188	18731A04K4	8					10					7
189	18731A04K5	10	5		3		10	7			2	25
190	18731A04K6	9					8					2

S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
191	18731A04K8	10	9		9		10	10		10		46
192	18731A04K9	10	4		6		10	10			10	36
193	18731A04L0	9	6		6		10	9			9	53
194	18731A04L1	9		7	1		9		5		3	15
195	18731A04L2	8	4		6		9	9		5	8	37
196	18731A04L3	10	9		5		10	10			8	35
197	18731A04L4											2
198	18731A04L5	9	3		4		10	9			7	27
199	18731A04L6	10	2				10		3		2	27
200	19735A0401	10	10			9	10	10			10	49
201	19735A0402	10	10		9		10	8		5		41
202	19735A0403	10	9			8	9		8			25
203	19735A0404	10	9		7		10	9		5		31
204	19735A0405	10	5		8		10		10		9	35
Number of students attempted question		198	162	26	152	36	202	178	19	60	99	204
Number of students scoring more than 50%		185	127	10	101	24	202	164	11	42	82	178
Sum of Marks		1678	998	71	783	193	1942	1405	94	303	675	6936
CO Attainment (By Marks) Percentage		84.75	61.60	27.31	51.51	53.61	96.14	78.93	49.47	50.50	68.18	48.57
CO Attainment		3	2	1	1	1	3	3	1	1	2	1
CO NUMBER		1,2	1	1	2	2	3,4,5	5	3	5	4	

Course End Survey

CO	Excellent (3)	Good (2)	Poor (1)	Total-weighte	Attainment	Total No of
CO1	174	9	10	550	2.85	193
CO2	177	11	5	558	2.89	193
CO3	185	4	4	567	2.94	193
CO4	182	8	3	565	2.93	193
CO5	180	6	7	559	2.90	193

TOTAL 202


 P. N. Visvodaya Institute of
 Technology & Science
 KAVALI - 524 207

CO ATTAINMENT

Course Name:	ELECTRONIC DEVICES AND CIRCUITS	
Course Code:	15A04301	C212
Session of Course:	JULY 2020 TO NOV 2020	
L:T:P	03:01:00	
Year/Semester	II/I	
Credits:	3	
Batch:	2019-2022	

CO MAPPING

COURSE OUTCOMES			Test-1	Test-2
C212.1	Construct electronic circuits using various diodes.		1,2,3	
C212.2	Develop LMPS(Linear Mode Power Supply) units using rectifiers, filters & regulators.		1,4,5	
C212.3	Demonstrate the construction, working and characteristics of BJT, JFET and MOSFET in various modes			1,2,4
C212.4	Analyze DC bias circuits for BJT and FET Amplifiers.			1,3
C212.5	Analyse transistor amplifier circuits using BJT & FET			1,5

COs ATTAINMENT:

CO	CO Attainment Values						External Attainment level	Direct Attainment levels	Indirect (CES) Attainment Level	CO Attained	% CO Attained
	Question wise										
C212.1	3.00	1.00	1.00				1.00	1.20	2.84	1.69	56.35
C212.2	3.00	1.00	2.00				1.00	1.30	2.86	1.77	58.89
C212.3	3.00	2.00	2.00				1.00	1.40	2.79	1.82	60.55
C212.4	3.00	2.00					1.00	1.45	2.93	1.89	63.16
C212.5	3.00	3.00					1.00	1.60	2.88	1.98	66.15

CO ATTAINMENT ANALYSIS: Target Level: 1.95

Based on the above result all CO's had not reached the target level.

1. For the gaps identified it was found that students have given more emphasis on theory and less on formulae and practising on problem solving.

- Remarks:
2. Students have not focused much on short answer questions which had impact on all the COs
 3. Topic wise previous university question papers were solved in Tutorial Classes.
 4. Students were given seminars to develop conceptual knowledge.

1. Set the target for next academic year as 1.95.

- Action Suggested:
2. Students are given assignments on short and long answer questions.
 3. Students are instructed to learn all the topics.


PO ATTAINMENT

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attained
CO1	3	2										3	2	2	1.69
CO2	3	3										3	2	2	1.77
CO3	3	3										3	2	2	1.82
CO4	3	3	2									3	2	2	1.89
CO5	3	2										3	2	2	1.98
TOTAL	5	5	1	0	0	0	0	0	0	0	0	5	5	5	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Sum of CO*PO	9.15	7.93	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.15	6.10	6.10
CO-PO LEVEL	1.84	1.59	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	1.23
% CO-PO	61.33	53.00	42.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.00	41.00

Signature of the Faculty

In-Charge


 HOD
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PARVATHAREDDY BABUL REDDY
VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
1	18731A0401	10		5	8		9.5		9	10		32
2	18731A0403	10		9	10		10	4	9		10	49
3	18731A0404	10		9	10		10		10		8	56
4	18731A0405	10		9	9	9	10	10	9	10		44
5	18731A0408	10	7	7			10		9	8		37
6	18731A0409	8		5		7	10	9		7		33
7	18731A0410	6		8	6		10		10	7	9	30
8	18731A0411	10	9	9	8	7	10	8	9	10		48
9	18731A0412	10		6	9		10	10		6	9	46
10	18731A0413	9		10	10		10		10		9	39
11	18731A0414	10		10	9		10	10			10	44
12	18731A0415	10		10		9	10		10	10	8	45
13	18731A0416	10		4		9	10		10	3	9	34
14	18731A0417	10	6		10		10		10	10		48
15	18731A0418	10		4	3		8.5	4			8	12
16	18731A0419	10	0	10	0	7	10		10	3	10	41
17	18731A0420	9		5		9	10		7	10		28
18	18731A0421	10	5		8		10		9	10	5	25
19	18731A0422	6		4	2		10	9		10		17
20	18731A0423	7		10	9		9		10	9		40
21	18731A0424	6		5	3		10	3		1		17
22	18731A0425	9		9	7		10		9	6		25
23	18731A0426	9		5	4		10		5	10		25
24	18731A0427	6		4	3		9	4		10	0	28
25	18731A0428	9	10			8	9	9		10		25
26	18731A0429	9		9		8	10		9	6		44
27	18731A0430	10	8		10		10	10		10		25
28	18731A0431	9		9	10		9	10			10	25
29	18731A0432	10		4	5		3	5		0		27
30	18731A0433	10		10	10		9	10			10	49
31	18731A0434	8		5	9		10	10		7		25
32	18731A0435	6		3	3		0	9		5		10
33	18731A0436	9		10	5		10	10			9	36

S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
34	18731A0437	9	7		8		9		6		10	39
35	18731A0438	10		10	9		10		8		10	25
36	18731A0439	10		6	5		7		4		7	7
37	18731A0440	10		10	10		10	10	9		10	55
38	18731A0442	10	10		10		10	10		9		47
39	18731A0443	8		10	4		5	7			8	32
40	18731A0444	10		10	10		10		10	10		25
41	18731A0445	10		10	10	10	10	10			10	35
42	18731A0446	10		10	10		10	10		8		48
43	18731A0447	10		10		10	10	10		10		53
44	18731A0448	9		5	5		10	9		9		26
45	18731A0449	10		10		10	10		10		10	42
46	18731A0450	10		10	10	10	10		10	10	10	53
47	18731A0451	9		6	5		10	9		9		29
48	18731A0453	4		3			10		2		10	27
49	18731A0454	10		10	8		10	10			9	42
50	18731A0455	9		10	10		10		10		10	54
51	18731A0456	10		10	9		10	10		6	10	54
52	18731A0457	8	8		5		7	2		8	7	31
53	18731A0458	10		10	8		10	10		6	10	25
54	18731A0459	10		10	10		10	10		9		38
55	18731A0460	10	4	6	9		10		10	10		26
56	18731A0461	10		10		10	10	10		10		48
57	18731A0462	10	8	10		10	10	10		10	9	25
58	18731A0463	10		8	9	5	10	10	10		10	44
59	18731A0464	10		10	8	9	10	4		10		53
60	18731A0465	10		10	10		10	10		9		26
61	18731A0466	10		10	9		10	10		10		50
62	18731A0467	6		3	6		2	2		7		25
63	18731A0468	10		10		10	10	10		10		25
64	18731A0469	10		9.5	7		9	10		3	10	27
65	18731A0470	10		10	10		10		9	10		55
66	18731A0471	8.5	3	6	9	9	7.5		5	9	6	40
67	18731A0472	10		10	6	9.5	7.5	10	9.5		9	25
68	18731A0473	9.5		5	9	4	8	9			8	38
69	18731A0474	10		5	8.5		7		1.5	9		27
70	18731A0475	9.5		10	5		7	4		0		25
71	18731A0476	9.5		10		8	10		10	10		41

S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
72	18731A0477	10		10	9.5		8		9	9.5	10	51
73	18731A0478	10		10	4	10	8		9.5	10		25
74	18731A0479	10		10	10		8	5	9	10		26
75	18731A0480	10		6.5	2	9.5	0	10		4		31
76	18731A0481	5.5		4.5		5.5	4		7	6	2	17
77	18731A0482	9		10	9		10		10	10		46
78	18731A0483	10		7	4		2					14
79	18731A0484	10		10		5	7.5		3		10	27
80	18731A0485	10		10	9	8.5	10	9	9	10		45
81	18731A0486	10		10	9	10	6	10	9.5	1	9.5	53
82	18731A0487	10		7.5	8		7.5		9	10		52
83	18731A0488	9.5		9.5	9.5		8	10	8	8		25
84	18731A0489	10		10	8	9.5	9.5	6	10	10	9	53
85	18731A0490	10		10		10	8		10	8	9.5	50
86	18731A0492	10		8	9.5		7.5	10		10		45
87	18731A0493	10		6	10		10		9	10		25
88	18731A0494	10	7	8.5	10		10	10	8.5		9.5	51
89	18731A0495	10		10	10	10	8		9.5	10	8.5	49
90	18731A0496	10		8.5	10		8		9	10		44
91	18731A0497	10		7.5	6	7.5	8		9	10		26
92	18731A0498	9.5		9.5	10		8		9	9		33
93	18731A0499	10		9.5	9		8		3.5		0	28
94	18731A04A0	10		10	9	10	8		10	10	8	38
95	18731A04A1	10		4	8	8	8	9		4.5		31
96	18731A04A2	10		10		10	8	10	9.5	10		32
97	18731A04A3	10		10	10		8		10	10	8.5	51
98	18731A04A4	10		5.5	2	9	8		4.5	6.5		25
99	18731A04A5	10		8	10		8		6.5	9		25
100	18731A04A6	10		6	5	5.5	8	7.5	4			9
101	18731A04A7	10		-2	2.5		9	3		1		9
102	18731A04A8	8		1	1		4	3	9.5	10		8
103	18731A04B0	10		8	8	9	8		10	10	6	34
104	18731A04B2	10		6.5	8.5	6	8		9.5	6.5	3	38
105	18731A04B3	10		9.5	9.5	8.5	8		8	10	5	37
106	18731A04B4	6		4.5	4	0	8		8.5	10		32
107	18731A04B5	10		3	2		10		2	6.5		26
108	18731A04B6	7.5		2	5.5		10	8.5		10		31
109	18731A04B7	10		8		9	8		7.5	8.5		35

S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
110	18731A04B8	10		10	10	6	10		8	8		28
111	18731A04B9	8		6.5	3.5	5	6	7		7.5		25
112	18731A04C0	10	4.5		5		7	3.5		3		25
113	18731A04C1	10		9	10	10	10		9.5	10	8.5	32
114	18731A04C2	5.5		2	1		8					4
115	18731A04C4	5.5		2		0	8					3
116	18731A04C5	7.5		9.5	10		8	4	10	10		42
117	18731A04C6	5		0	3		2			1		10
118	18731A04C7	10		7	6.5		5.5		1.5	1.5	8	15
119	18731A04C8	8	1				7.5		0	0		7
120	18731A04C9	9.5		9	3.5	3.5	8	4	9.5		6.5	33
121	18731A04D0	0				0	2					0
122	18731A04D1	10		5.5	2.5		3	0		3		27
123	18731A04D2	10		5	10		8		8	10		34
124	18731A04D3	9		2		5.5	6	3		2		17
125	18731A04D4	10		5.5	5	5.5	8	0	0	2		11
126	18731A04D6	9.5		5	7		10		10	6		35
127	18731A04D7	9		10	9		10		9	10		30
128	18731A04D8	6	4		3		0	10		4		26
129	18731A04D9	1			5.5		0			6		16
130	18731A04E0	4		6	9.5		9		6	6		33
131	18731A04E1	7		5	8		4		3	8		28
132	18731A04E2	4		3	1					5		10
133	18731A04E3			3	4	3	2		3	3		14
134	18731A04E4	6							5			9
135	18731A04E5	8		4	8		9			3		15
136	18731A04E6	0			4				4			1
137	18731A04E7	10		10	10	10	10	10		10	10	26
138	18731A04E8	9		10	5	10	10		10	7		35
139	18731A04F0	8		6	1	7	8		4	7		25
140	18731A04F1			4	2				2	3		4
141	18731A04F2	10		6	10	3	1	10		9		29
142	18731A04F3	9		3	9		10	7		7		18
143	18731A04F4	10		5	2		5	3		4		5
144	18731A04F5	8		4	4		7		1	7		11
145	18731A04F6		0							3		3
146	18731A04F7	6		3.5		8						8
147	18731A04F8	2		-3	9		7					10


S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
148	18731A04F9	10	7	5	5	7	7	10		10		31
149	18731A04G0	10		5	5	9	8	8		5		14
150	18731A04G1	8	6		5		4	7		10		16
151	18731A04G2	10			4				1		10	8
152	18731A04G3	10		10	10	2	10		10	10	10	40
153	18731A04G4	9		5	9	7	9	7		8		31
154	18731A04G5	7			2		2	6				8
155	18731A04G6	3		-1	1		7	1		1		6
156	18731A04G7	2	6		8		7	10		9		27
157	18731A04G8	3		1		2		2		2		8
158	18731A04G9	5								2		7
159	18731A04H0	8		6			6	9		10		17
160	18731A04H2	8			8		10					25
161	18731A04H3	10			4		10			5		17
162	18731A04H4	6		6		3	7	9			7	16
163	18731A04H5	8		7	5		10	3	3	3		25
164	18731A04H6	8		8.5	8	6.5	8	10	7	10		25
165	18731A04H7	10		4	4		10			3	10	10
166	18731A04H8	5				1	8					11
167	18731A04H9	8		9	9		10	10		6		27
168	18731A04I0	10		9	7	6	10	2	7	10		30
169	18731A04I1	7	2	6	4	2	8		10	1		12
170	18731A04I2	8		5		9	8	4		9		28
171	18731A04I3	10	6		5		9	10		10		33
172	18731A04I4	0	1				3	2		1		9
173	18731A04I5	8		5	5		10		8		4	17
174	18731A04I6	2	2				7	1		2		2
175	18731A04I7	10		8	8	6	10					25
176	18731A04I8	10		5	5		10	10		3		25
177	18731A04I9	4		4	3	0	4	10		2		14
178	18731A04J0	10		4	6	2	10		10	1		28
179	18731A04J1	9		5		2	1	2		0		11
180	18731A04J2	0		-0	1	1	6	2			0	6
181	18731A04J3	7			4		10				6	17
182	18731A04J4						2	2	1			7
183	18731A04J5	10		2	4		8			6		17
184	18731A04J6	7		10	2		5	7		6		16
185	18731A04J7	2		2	1			1		3		12

S.No	Roll no.	Test 1					Test 2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
186	18731A04J8	1	0				2				0	
187	18731A04J9	8		3	5		0	10		0	17	
188	18731A04K0	10		10	9	5	10	8		8	40	
189	18731A04K1	10		10		2	6	9		2	16	
190	18731A04K2	8		1			9		1		6	
191	18731A04K4	7		5	1		10			3	7	
192	18731A04K5	10		8	4		10	6	2		26	
193	18731A04K6	7					10				0	
194	18731A04K8	10		10	10		10		9		10	
195	18731A04K9	6		9	9		10		10		9	
196	18731A04L0	7		10	4	5	10		10		10	
197	18731A04L1	9	0	3	4	4	10		3	7	15	
198	18731A04L2	10		8.5	9		8	10	7	9	4	
199	18731A04L3	10		10	4		10	10		7	35	
200	18731A04L4	1	0			0		0			0	
201	18731A04L5	10	8			10	10	10			10	
202	18731A04L6	10		4	1		10			6	18	
203	19735A0401	10		10		10	10	10		10	45	
204	19735A0402	10		7	6		9	10			7	
205	19735A0403	10			2	8	6	9		4	5	
206	19735A0404	9	7		4		5	10		8	25	
207	19735A0405	10	7		6		9	10			10	
Number of students attempted question		203	31	172	164	80	196	107	101	152	69	207
Number of students scoring more than 50%		186	18	133	115	61	173	78	78	112	61	143
Sum of Marks		1686	132	1092	938	499.5	1535	717	696.5	969	537.5	4985
CO Attainment (By Marks) Percentage Questionwise		83.03	42.58	63.49	57.20	62.44	78.32	67.01	68.96	63.75	77.90	34.40
CO Attainment Level		3	1	-1	1	2	3	2	2	2	3	1
CO NUMBER		1,2	1	1	2	2	3,4,5	3	4	3	5	

Course End Survey

CO	Excellent (3)	Good (2)	Poor (1)	Total-weighted	Attainment	Total No of Students
CO1	170	16	8	550	2.84	194
CO2	175	10	9	554	2.86	194
CO3	160	27	7	541	2.79	194
CO4	185	5	4	569	2.93	194
CO5	176	13	5	559	2.88	194

TOTAL 207

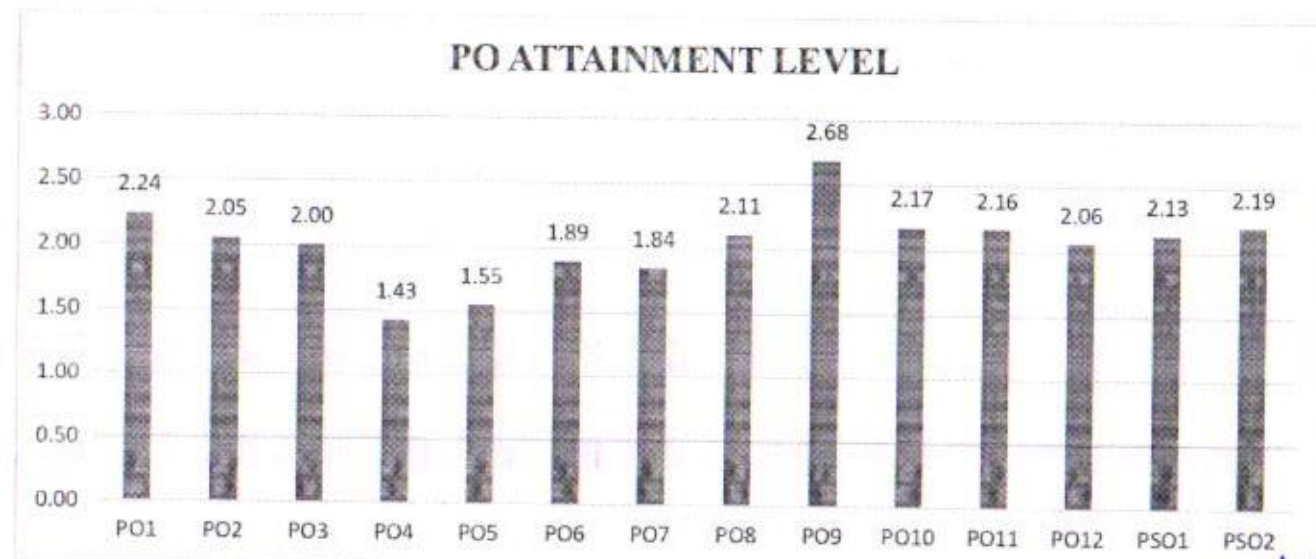

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Technology & Science
 KAVALI

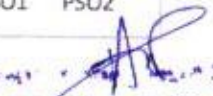


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



PO		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
DIRECT ATTAINMENT LEVEL	PO ASSESMENT (80%)	1.71	1.52	1.50	0.91	1.02	1.34	1.32	1.59	2.15	1.67	1.64	1.54	1.60	1.65
INDIRECT ATTAINMENT LEVEL	GES(10%)	0.29	0.28	0.28	0.29	0.28	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.28
	AS(5%)	0.13	0.13	0.13	0.12	0.13	0.13	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13
	ES(5%)	0.11	0.13	0.10	0.11	0.13	0.13	0.11	0.10	0.11	0.10	0.12	0.12	0.12	0.13
PO ATTAINMENT LEVEL		2.24	2.05	2.00	1.43	1.55	1.89	1.84	2.11	2.68	2.17	2.16	2.06	2.13	2.19
TARGET LEVEL		1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89
		A	A	A	NA	NA	A	NA	A	A	A	A	A	A	A




 Parvathareddy Babul Reddy
 Visvodaya Institute of Technology & Science
 Kavalu - 524201, S.P.S.R Nellore Dist., A.P. India.

CO ATTAINMENT

Course Name:	ENGINEERING CHEMISTRY	
Course Code:	15A51101	C124
Session of Course:	JANUARY 2018 TO APRIL 2018	
T:Tu:	03:01	
Year/Semester	I/II	
Credits:	3	
Batch:	2018-2022	

CO MAPPING

COURSE OUTCOMES		MID-1	MID-2
C104.1	Analyze water samples and develop suitable water treatment methods to use water domestica	1,2,3	
C104.2	Apply the knowledge of different polymers and their better usage in various fields of enginee	1,4,5	
C104.3	Apply the knowledge of various electrochemical cells and corrosion fundamentals for the de		1,4
C104.4	Differentiate natural and derived fuels and also apply the knowledge for effective usage and		1,2,3
C104.5	Apply the knowledge of different materials used in engineering and also develop advanced n		1,5

COs ATTAINMENT:

CO	CO Attainment Values						External Attainment	Direct Attainment	Indirect (CES)	CO Attained	% CO Attain
	Question wise										
C104.1	3.00	1.00	1.00				1.00	1.20	2.62	1.56	52.00
C104.2	3.00	1.00	1.00				1.00	1.20	2.61	1.55	51.67
C104.3	1.00	1.00					1.00	1.00	2.64	1.49	49.67
C104.4	1.00	1.00	1.00				1.00	1.00	2.58	1.47	49.00
C104.5	1.00	3.00					1.00	1.30	2.62	1.70	56.67

CO ATTAINMENT ANALYSIS: Target Level: 1.95

ACTION SUGGESTED:


PO ATTAINMENT

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	Attain
CO1	2	1	2	1	1	2	2		1	2	1	1			1.56
CO2	2	1	1	1	1				1	1	1	1			1.55
CO3	3	2	1	1					1	1	1	1			1.49
CO4	2	2				2	2	1		1		2			1.47
CO5	3	2	1		2	2	1	1		1		1			1.70
TOTAL	5	5	4	3	3	3	3	2	3	5	3	5	0	0	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Sum of CO-PO	6.24	4.14	2.62	1.53	2.17	3.15	2.59	1.06	1.53	3.11	1.53	3.08	0.00	0.00
CO-PO LEVEL	1.25	0.83	0.66	0.52	0.73	1.06	0.87	0.53	0.52	0.63	0.52	0.62	0.00	0.00
% CO-PO	41.67	27.67	22.00	17.33	24.33	35.33	29.00	17.67	17.33	21.00	17.33	20.67	0.00	0.00

Signature of the Faculty

In-Charge


 Head of Department
 COMPUTER SCIENCE ENGINEERING
 PBR Visvodaya Institute of Technology & Science
 KAVALI - 524 201, SPSR Nellore Dt.



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 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Course Name:		ENGINEERING CHEMISTRY										Univ. Marks
S.No	Roll no.	MID-1					MID-2					
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
1	18731A0501	9	4		3	8	10					38
2	18731A0502	8	5		6		7			2		27
3	18731A0503	9	2	2		10	6	2				39
4	18731A0504	5.5	4			3	8		2		1	31
5	18731A0505	0	0							0		3
6	18731A0506	7	3		1		6	10				25
7	18731A0507	10	5			10	9	0				39
8	18731A0508	10		5	3		9	10		10		38
9	18731A0509	10	4		3		2				8	31
10	18731A0510	10		10		10	6					38
11	18731A0511	10	5			10	7	8		8		49
12	18731A0512	8	7			4	4	10				13
13	18731A0513	8	5	2		9	9	10		8		55
14	18731A0514	0	0		0					0		3
15	18731A0515	8	5			10	8		6			25
16	18731A0516	8		5		5	8	8		6		47
17	18731A0517	10		10		5	10	9		10		61
18	18731A0518	10		0		8		1				26
19	18731A0519	10	9		10		9		10	6		36
20	18731A0520	10		8		9	9	10			5	37
21	18731A0521	2	6				9		1	0		13
22	18731A0522	10	4		5		10	5				10
23	18731A0523	10	5			10	10	10		4		50
24	18731A0524	10		10		10	4		1	3		29
25	18731A0525	6	0		5		2					7
26	18731A0526	10		10		9	8				0	42
27	18731A0527	10		6		10	7	1		2		36
28	18731A0528	10				10	4				10	30
29	18731A0529	2	4		3		3				0	16
30	18731A0530	10	5			5	10		3			42
31	18731A0531	10			3	2	3			5	1	29
32	18731A0532	4	5		3		3					25
33	18731A0534	5	5		3		0		0			27
34	18731A0535	6	2			8	6					28
35	18731A0536	6	4		1	5	6			1	0	49
36	18731A0537	8		5		5	9	8			7	60
37	18731A0538	8				10	7	0		1		25
38	18731A0539	8			10		2	8			6	33
39	18731A0540	6				6	3	7				29
40	18731A0541				1					3		25
41	18731A0543	9					9					12
42	18731A0544	10	8		2		8				3	52
43	18731A0545	9			1		2		1	3		42
44	18731A0546	6	6		9	6	6	7			8	42
45	18731A0547	8	10		10		5	7			10	53
46	18731A0548	9					1	4		3		18
47	18731A0549	7				3	6			8		32
48	18731A0550	5				6	2	4		4		16
49	18731A0551	8		2		6	4			3		16
50	18731A0552	5	3	1	6		2	4		7		10

Course Name:		ENGINEERING CHEMISTRY										Univ. Marks
S.No	Roll no.	MID-1					MID-2					
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
51	18731A0553	7	5	5	1		1			5		29
52	18731A0554				7		1	4			3	26
53	18731A0555	8		9	2		5	5	7			48
54	18731A0556	5	7	9			1		7		5	35
55	18731A0557	10		2	6	3	10	2			10	48
56	18731A0558	0							0	2		1
57	18731A0559	3		7	2		4	10			8	44
58	18731A0560	9			5	2	10	4		4		25
59	18731A0561	6			10			5		2		33
60	18731A0562	9			10		10		10		10	58
61	18731A0563	10	10	5			10	10		10		45
62	18731A0564	3	1		2			3			3	15
63	18731A0565	8		7		8	3	10			10	25
64	18731A0566	10		10		10	10	10			10	67
65	18731A0567	7	10			6	9	7			7	42
66	18731A0568	10	8	5	4		10	10		10	10	40
67	18731A0569	10	10	10			10	10		10	10	56
68	18731A0570	10		10		7	10	10			10	46
69	18731A0571	6		7			2	1				17
70	18731A0572	8		5			2			4		40
71	18731A0573	8		5	10		7			10		39
72	18731A0574	10		5		8	5	8	4		8	37
73	18731A0575	10		5		3	6			10	10	27
74	18731A0576	10		7			7	10			10	25
75	18731A0577	10		10		10	8	7			10	25
76	18731A0578	6					7	3		3		13
77	18731A0579	10	7	6			10	7			8	29
78	18731A0580	10		10	6		10	8			10	42
79	18731A0581	3			10					6		10
80	18731A0582	10		5	7		10	8			8	50
81	18731A0583	10	8	5	6		10	8			8	37
82	18731A0584	10	10				4	10		10		43
83	18731A0585	10	5			10	6	5			10	52
84	18731A0586	10				8	8		10		10	50
85	18731A0587	10	1		10		7		4		10	57
86	18731A0588	4					2				2	10
87	18731A0589	10	10			10	10		10		10	69
88	18731A0590	5			2		8	10		10		58
89	18731A0591		7		5		3	5		8		33
90	18731A0592	4	2		3		9	5		3		29
91	18731A0593	9			5		6	5		5	5	28
92	18731A0594	9		10			10	10			10	50
93	18731A0595	4		5			3	6				28
94	18731A0596	9	6		7		10	10			10	48
95	18731A0597	10		5	2	2	10	2		10		44
96	18731A0598	4	2		4		5	6		5		32
97	18731A0599	10	9		10		4	10	1		7	48
98	18731A05A0	10		10	6		8		10		9	27
99	18731A05A1	9		5			2	7				10
100	18731A05A2	8	2	3		2						25
101	18731A05A3	10		2		4	9		10		10	30
102	18731A05A4	10	10		10		10	10			10	53
103	18731A05A5	9	9		1		6	8		10		39
104	18731A05A6	8	2		10		10			8		27
105	18731A05A7	2	2		2			8		4		18

Course Name:		ENGINEERING CHEMISTRY										
S.No	Roll no.	MID-1					MID-2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
	Max. Marks	10	10	10	10	10	10	10	10	10	10	70
	50% Marks	5	5	5	5	5	5	5	5	5	25	
106	18731A05A8	9	9		7		10	7			10	50
107	18731A05A9	10	8		3		8	8		8		59
108	18731A05B0	10		10		10	10		10		10	56
109	18731A05B1	9	1	3	4	1	10	10		10		32
110	18731A05B2	10		8		3	10		10		5	51
111	18731A05B3	6		5			10		10	10		25
112	18731A05B4	2		5	3		2	8		10		25
113	18731A05B5	9		7	2		3	6		10		25
114	18731A05B6	7	4	1			7	10		8		31
115	18731A05B7	9	10		9	6	10		10		10	56
116	18731A05B8	10		10		10	10	10			8	30
117	18731A05B9	10	10		9		10	8			8	32
118	18731A05C0	10		8	4		8		10		10	52
119	18731A05C1	4		5	4		0	4			3	25
120	18731A05C2	10		5	8		8		6		10	64
121	18731A05C3	9		5	0	1	6	5		5		39
122	18731A05C4	8		8		0	7	4		6		26
123	18731A05C5	6		7	8		7	5			5	32
124	18731A05C6	3	5		0		1	0		4		2
125	18731A05C7	2		9	5		2	6		5		16
126	18731A05C8	9		5		0	10		7	5		38
127	18731A05C9	9		10			9	3			7	25
128	18731A05D0	9		5	7		2		0	0	2	7
129	18731A05D1	0		8	7		8	4		5	8	29
130	18731A05D2						3			3		30
131	18731A05D3	9		5	5		10	5		5		26
132	18731A05D4	10		7			10	0		0		25
133	18731A05D5	10		5			9	7				11
134	18731A05D6	7	5	5	0		5	3			2	12
135	18731A05D7	7		5			6	5		3		8
136	18731A05D8	10	10			5	10	5		7		48
137	18731A05D9	10		5		5	10		8		8	46
138	18731A05E0	10		10	9		10		10		10	49
139	18731A05E1	10	9	9	3		9	6			10	39
140	18731A05E2	2	2				3	0		3		10
141	18731A05E3	10	5	5	0		9		9	5		40
142	18731A05E4	10	4	3			9	5			9	25
143	18731A05E5	8		9		0	10	5			9	33
144	18731A05E6	1	6		5		2				9	25
145	18731A05E7	3	4		5		3				9	25
146	18731A05E8	0					0					1
147	18731A05E9		5									17
148	18731A05F0		5					4		2		3
149	18731A05F1	6		6		0	6				5	26
150	18731A05F2	8		0	0		0	2	0	3	9	3
151	18731A05F3	9		0	0		9		0	4	0	38
152	18731A05F4	9	0		0		10		4	3		11
153	18731A05F5	1		0			7				4	4
154	18731A05F6	9		5	3							4
155	18731A05F7	1	7		5		7	9		6		28
156	18731A05F8	8		10	7		9	9			10	25
157	18731A05F9	10		5	10	4						40
158	18731A05G0		6			0	4			3	8	25
159	18731A05G1	2	0		0		0	5			10	16
160	18731A05G2	6		4		2	2		0	4		7
161	18731A05G3	9	4	3	0	0	6			3	8	17
162	18731A05G4	3	3				1	2		2		2
163	18731A05G5	1					2					2

Course Name:		ENGINEERING CHEMISTRY										
S.No	Roll no.	MID-1					MID-2					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
164	18731A05G6	2	2	2			1		7	3	30	
165	18731A05G7	10		10		3	10	8		9	46	
166	18731A05G8	0	0			2	9	0		5	28	
167	18731A05G9	7					4	5	2	8	28	
Number of students		160	76	84	82	62	154	97	36	78	167	
Number of students		130	45	67	41	39	106	70	20	42	128	
Sum of Marks		1133.5	322	472	307	313	887	542	177	322	4837	
CO Attainment (By		70.84	42.37	56.19	37.44	50.48	57.60	55.88	49.17	41.28	41.38	
CO Attainment Level		3	1	1	1	1	1	1	1	1	1	
CO NUMBER		1,2	1	1	2	2	3,4,5	4	4	3	5	

Course End Survey

CO	Excellent (3)	Good (2)	Poor (1)	Total-weighted	Attainment	Total
CO1	111	39	14	425	2.62	164
CO2	109	42	13	424	2.61	164
CO3	113	39	12	429	2.64	164
CO4	112	34	18	422	2.58	164
CO5	117	34	13	432	2.62	164
TOTAL	164					

Convert % into 3 point scale	
≥70%	3
60% - 70%	2
≤ 60%	1

Convert % into 3 point scale	
≥ 60%	3
50% - 60%	2
≤ 50%	1

INDIRECT ATTAINMENT	
EXCELLENT	60% to 70%
GOOD	15% to 20%
POOR	< 10%


 D. J. Anand
 COMPUTER SCIENCE ENGINEERING
 PBR Visvodaya Institute of Technology & Science
 KAVALI - 524 201, SPSR Nellore Dt.

CO ATTAINMENT

Course Name:	Microprocessors & Interfacing	
Course Code:	15A04407	C224
Session of Course:	DEC 2016 TO APR 2017	
T:Tu	03:01	
Year/Semester	II/II	
Credits:	3	
Batch:	2015-19	

CO MAPPING

COURSE OUTCOMES		Test-1	Test-2
C224.1	Understand the fundamental concepts and architecture of 8085 and 8086.	1,2	
C224.2	Make use of 8086 instruction set for assembly language programming.	1,2,3	
C224.3	Identify the interrupts ,analyze the memory and I/O interfacing of 8086.		1,3,4
C224.4	Infer how to interface memory and I/O devices and program 8086 microprocessor.	5	1,2
C224.5	Analyze the architecture of 8051 and interfacing devices of 8051.		1,5

COs ATTAINMENT:

CO	CO Attainment Values						External Attain	Direct Attainment	Indirect (CES)	CO Attained	% CO Attained			
	Question wise													
C224.1	3.00	3.00	3.00				3.00	1.00	1.60	2.81	1.62	54.13	1.6	1.96
C224.2	3.00	2.00	3.00				2.67	1.00	1.50	2.78	1.59	53.06	1.5	1.88
C224.3	3.00	3.00					3.00	1.00	1.60	2.81	1.60	53.38	1.6	1.96
C224.4	3.00	2.00	1.00				2.00	1.00	1.30	2.77	1.58	52.75	1.3	1.74
C224.5	3.00	2.00					2.50	1.00	1.45	2.80	1.63	54.44	1.45	1.86

CO ATTAINMENT ANALYSIS: Target Level: 1.8

Based on the above all the CO's reached the target level.

Remarks:

- For the gaps identified it was found that students have given more emphasis to theorems, algebraic structures and practising more problems on graph theory
- Students have not focused much on short answer questions which had impact on all the COs

Action Suggested:

- Students are given assignments on short answer questions.
- Students are instructed to learn all the topics

PO ATTAINMENT

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	Attain
CO1	2		2	3	1										1.62
CO2	3	3	3	3											1.59
CO3	3	3	1												1.60
CO4	3	3	1											1	1.58
CO5	3	3	3	1	1										1.63
TOTAL	5	4	5	3	2	0	0	0	0	0	0	0	1	0	2

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
of	7.49	6.41	5.37	3.76	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.00
CO- PO	1.50	1.61	1.08	1.26	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.00
% CO- PO	50.00	53.67	36.00	42.00	18.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.33	0.00

Signature of the Faculty

In-Charge

HOD
 Head of Department
COMPUTER SCIENCE ENGINEERING
 RBR Visvodaya Institute of Technology & Science
 - KAVALI - 524 201, SPSR Nellore Dt.



PARVATHAREDDY BABUL REDDY
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Course Name:		Microprocessors & Interfacing										
S.No	Roll no.	MID-I					MID-II					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
1	18731A0501	10	10		8		10		8	10		38
2	18731A0502	10		10	3		10		10	3		25
3	18731A0503	10		10	6		10		6	6		36
4	18731A0504						10		4	2		0
5	18731A0505	5	5		4		5		5	5		7
6	18731A0506	10		6	5		10		4	8		25
7	18731A0507	10		10	8		10	6		10		27
8	18731A0508	10		10	7		10		10	5		33
9	18731A0509	10		7	10		10		8	8		28
10	18731A0510	10	10		6		10		10	10		25
11	18731A0511	10	10		10		10		10	7		38
12	18731A0512	10	10		4		10		8	4		8
13	18731A0513	10		10	8		10		10	7		32
14	18731A0514	10		10	5		3		2	1		6
15	18731A0515	10		10	7		10		10	6		25
16	18731A0516	10		10	9		10		7	4		33
17	18731A0517	10	10		10		10		10		10	46
18	18731A0518	10	5		4		10		2		2	14
19	18731A0519	10		10	9		10		10	5		25
20	18731A0520	10		10	8		10		8	4		32
21	18731A0521	10		10	7		10		4	5		25
22	18731A0522	10	10		8		9		5	4		39
23	18731A0523	10		10	10		10		10	8		24
24	18731A0524	10		10	8		10		10	7		1
25	18731A0525	10		6	6		3		1	1		45
26	18731A0526	10	10		10		10		10		4	24
27	18731A0527	10		10	7		10	2			8	25
28	18731A0528	10		10	6		10		8	4		20
29	18731A0529	10		4	4		8		2	8		49
30	18731A0530	10	10		10		10		7	10		24
31	18731A0531	10		10	8		10		10	6		21
32	18731A0532	10	10		9							30
33	18731A0534	10		10	8		10		10		6	33
34	18731A0535	10		10	9		10		10		5	48
35	18731A0536	10		10	10		10		10	5		40
36	18731A0537	10		10	10		10		10	8		26
37	18731A0538	10		10	9		10		10	9		23
38	18731A0539	10		10	5		10		8		4	14
39	18731A0540	10		10	7		10	8		3		-6
40	18731A0541	10		6	5		5		4	3		31
41	18731A0543	10		10	4		10		10	6		29
42	18731A0544	10	10		4		10		10		8	-6
43	18731A0545	10		4	10		10		8		3	10
44	18731A0546	10	10		6		10		8		6	25
45	18731A0547	10		6	10		3		3	3		29
46	18731A0548	10	10		8		10		5	6		28
47	18731A0549	10		6	6		5	5		5		25
48	18731A0550	10		10	4		10	10		7		34
49	18731A0551	10		3	2		10	3		6		12
50	18731A0552	10	10		8		10	8		6		27

Course Name:		Microprocessors & Interfacing										Univ. Marks	
S.No	Roll no.	MID-I					MID-II						
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5		
Max. Marks		10	10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	5	25
51	18731A0553	10		10	5		10	8		6			30
52	18731A0554	10	10		9		10	10			6		11
53	18731A0555	10		10	4		10		10			9	6
54	18731A0556	10	10		10		10	10				10	53
55	18731A0557	10		10	8		10		10			4	11
56	18731A0558	10	10		8		10	10		7			27
57	18731A0559	10		5	5		10	10		6			20
58	18731A0560	10		10	5		10	10		10			28
59	18731A0561	10	10		10		10	10		10			25
60	18731A0562	10	10		4		10	4		4			6
61	18731A0563	10		10	6		10		10	6			3
62	18731A0564	10	10		10		10		10	10			30
63	18731A0565	10		10	5		10		10	10			16
64	18731A0566	10	10		5		10	10		10			26
65	18731A0567	10		10	10		10	9		10			33
66	18731A0568	10	10		10		10	10		10			29
67	18731A0569	10		10	8		10	4		4			32
68	18731A0570	10	10		5		10	10		10			32
69	18731A0571	10		10	8		10	10		10			25
70	18731A0572	10	10		7		10	10			6		11
71	18731A0573	10		7	10		10		6	10			7
72	18731A0574	10	9		10		10	10		10			40
73	18731A0575	10		10	7		10		3	4			25
74	18731A0576	10	10		9		10	10		10			35
75	18731A0577	10		10	8		10	10		9			43
76	18731A0578	10		2	2		10	7		10			2
77	18731A0579	10		10	8		10	10		9			31
78	18731A0580	10		10	10		10	9		9			34
79	18731A0581	10		6	5		10	10		5			25
80	18731A0582	10	10		10		10		7	10			41
81	18731A0583	10		10	9		10		9	9			26
82	18731A0584	10	10		5		10		10	6			15
83	18731A0585	10		10	10		10		10	10			32
84	18731A0586	10	10		6		10		10	8			32
85	18731A0587	10		6	5		10		10	6			25
86	18731A0588	10		5	5		10		7	6			26
87	18731A0589	10		10	3		10		10	8			33
88	18731A0590	10		10	10		10		10	10			25
89	18731A0591	10		5	5		10		10	3			25
90	18731A0592	10	10		10		10		8	10			25
91	18731A0593	10		10	8		10	10			10		25
92	18731A0594	10		3	2		10	9		10			28
93	18731A0595	10		10	10		10	10		9			25
94	18731A0596	10	10		10		10	10			10		33
95	18731A0597	10	10		6		10		10		8		27
96	18731A0598	10		10	8		10		10		10		40
97	18731A0599	10	10		10		10		10		8		43
98	18731A05A0	10	10		7		10	8		10			25
99	18731A05A1	10	10		4		10	10		5			25
100	18731A05A2	10		4	3		10		5	4			27
101	18731A05A3	10	10		7		10	10		4			28
102	18731A05A4	10		10	9		10		10	10			27
103	18731A05A5	10	10			10	10		10	10			53
104	18731A05A6	10		10	7		10	9		10			32
105	18731A05A7	10	10		9		10	10		9			29

Course Name:		Microprocessors & Interfacing										Univ. Marks
S.No	Roll no.	MID-I					MID-II					
Max. Marks		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	70
50% Marks		10	10	10	10	10	10	10	10	10	10	10
106	18731A05A8	10		10	5		10		8	10		29
107	18731A05A9	10	10		3		10		7	5		25
108	18731A05B0	10		10	6		10	9		10		25
109	18731A05B1	10	10		10		10		10	9		25
110	18731A05B2	10		10	10		10	9			10	35
111	18731A05B3	10	10		10		10		10		9	30
112	18731A05B4	10		10	10		10	10		7		26
113	18731A05B5	10	10		10		10		10	9		26
114	18731A05B6	10		6	5		10	7		4		1
115	18731A05B7	10	10		10		10		10	7		37
116	18731A05B8	10		10	8		10	9		10		31
117	18731A05B9	10		3	2		10		4	5		24
118	18731A05C0	10		10	9		10	5		10		29
119	18731A05C1	10		3	3		3		2	2		0
120	18731A05C2	10		6	5		5		5	7		26
121	18731A05C3	10	10		10		10	10		10		26
122	18731A05C4	10		10	5		5	5		7		29
123	18731A05C5	10	10		4		4		2	1		13
124	18731A05C6	10		10	9		10		10	5		38
125	18731A05C7	10	5		5		5	5		5		25
126	18731A05C8	10	10		9		10	10		6		34
127	18731A05C9	10	10		4		5	5		5		1
128	18731A05D0	10	10		3		10	5		5		42
129	18731A05D1	10		10	4		10		5	4		1
130	18731A05D2	10		10	6		10		2	5		26
131	18731A05D3	10		10	10		10		5	4		25
132	18731A05D4	10		10	10		10		10		10	36
133	18731A05D5	10	10		10		10		9	10		27
134	18731A05D6	10		10	10		10		10	6		35
135	18731A05D7	10		10	3		10		4	3		12
136	18731A05D8	10		10	10		10		4		7	29
137	18731A05D9	10		10	5		10	3		10		27
138	18731A05E0	10		5	10		10	10		3		30
139	18731A05E1	10	10		5		10		7	4		30
140	18731A05E2	10		6	6		10		3	4		12
141	18731A05E3	10	10		9		10		10		6	10
142	18731A05E4	10		10	8		10		10	4		25
143	18731A05E5	10		4	4		10		10	6		25
144	18731A05E6	10		10	3		7		3	7		26
145	18731A05E7	10		5	6		10		10	6		29
146	18731A05E8	10		3	5		10		6		10	6
147	18731A05E9	10		4	3							5
148	18731A05F0	10		10	7		10		4	3		14
149	18731A05F1	10		10	6		10		10	5		27
150	18731A05F2	10		10	7		10		10	10		33
151	18731A05F3	10		7	10		10	4		5		11
152	18731A05F4	10	10		7		10		5	4		12
153	18731A05F5	10	6		5		10		5	10		0
154	18731A05F6	10		5	4		6		4		2	25
155	18731A05F7	10	10		5		10		10		9	34
156	18731A05F8	10	10		8		10	9			10	49
157	18731A05F9	10	5		6		10		7	5		0
158	18731A05G0	10		2	2		10		3	3		26
159	18731A05G1	10		3	3		10		2		5	2
160	18731A05G2	10		10	4		10		10		2	25
161	18731A05G3	10		5	5		3		3	4		25
162	18731A05G4	10		10	3		10		8	5		10
163	18731A05G5	10		5	5		10		3	5		29

Course Name:		Microprocessors & Interfacing										
S.No	Roll no.	MID-I					MID-II					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
164	18731A05G6	10		6	6		5		5	5	29	
165	18731A05G7	10		4	4		6		7		25	
166	18731A05G8	10		6	6		5		5		29	
167	18731A05G9	10		4	4		6		7		25	
Number of students		164	58	106	163	1	163	54	109	132	31	165
Number of students		164	58	92	130	1	157	48	85	100	23	119
Sum of Marks		1635	555	827	1006	10	1516	424	740	770	190	3651
CO Attainment (By		99.70	95.69	78.02	61.72	100.00	93.01	78.52	67.89	58.33	61.29	31.61
CO Attainment Level		3	3	3	2	3	3	3	2	1	2	1
CO NUMBER		1,2	1	1	2	2	3,4,5	3	4	4	5	

99.69512

Course End Survey						
CO	Excellent (3)	Good (2)	Poor (1)	Total-weighted	Attainment	TOTAL
CO1	130	14	7	425	2.81	151
CO2	128	13	10	420	2.78	151
CO3	131	12	8	425	2.81	151
CO4	128	12	11	419	2.77	151
CO5	130	12	9	423	2.80	151
TOTAL	151					


 Head of Department
 COMPUTER SCIENCE ENGINEERING
 PBR Visvodaya Institute of Technology & Science
 KAVALI - 524 201, SPSR Nellore Dt.

CO ATTAINMENT

Course Name:	Principles of Programming Languages	
Course Code:	15A05504	C314
Session of Course:	JUL2017 TO NOV 2017	
T:Tu	03:01	
Year/Semester	III/I	
Credits:	3	
Batch:	2015-19	

CO MAPPING

COURSE OUTCOMES		Test-1	Test-2	Test-3
C314.1	Identify an appropriate programming language for problem solving	2,4,5		
C314.2	Generalize using imperative languages.	1,3,5		
C314.3	Illustrate using object oriented languages.		1,4,5	
C314.4	Practice functional programming languages		2,5	
C314.5	Predict appropriate logical programming languages for specific kind of problem solving.		3,5	

COs ATTAINMENT:

CO	CO Attainment Values						Internal Attainment level	External Attainment level	Direct Attainment level	Indirect (CES) Attainment	CO Attained	% CO Attained
	Ques1	Ques2	Ques3	Ques4	Ques5	Ques6						
C314.1	3.00	3.00	1.00				2.33	1.00	1.40	2.78	1.61	53.52
C314.2	3.00	2.00	3.00				2.67	1.00	1.50	2.88	1.63	54.48
C314.3	3.00	2.00	3.00				2.67	1.00	1.50	2.91	1.85	61.81
C314.4	3.00	3.00					3.00	1.00	1.60	2.89	1.78	59.26
C314.5	3.00	3.00					3.00	1.00	1.60	2.87	1.77	59.04

CO ATTAINMENT ANALYSIS:

Target: LEVEL 1.95

Based on the above result CO3 had not reached the target level.

Remarks:

- For the gaps identified it was found that students have given more emphasis to corrosion than electrochemistry part and questions were asked in electrochemistry.
- Students have not focused much on short answer questions which had impact on all the COs

Action Suggested:

- Students are given assignments on short answer questions.
- Students are instructed to learn all the topics.

PO ATTAINMENT

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attained
CO1	3	3											1	1	1.61
CO2	3	3											1	1	1.63
CO3	3	2	3										2	1	1.85
CO4	3	2											2	2	1.78
CO5	2	3	3										1	2	1.77
TOTAL	5	5	2	0	0	0	0	0	0	0	0	0	5	5	

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Sum of CO*PO	8.05	7.43	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.09	4.06
CO-PO LEVEL	1.62	1.49	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	1.82
% CO-PO	54.00	49.67	60.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.67	60.67

Signature of the Faculty

In-Charge


 Head of Department
COMPUTER SCIENCE ENGINEERING
 PBR Visvodaya Institute of Technology & Science
 KAVALI - 524 201, SPSR Nellore Dt.



PARVATHAREDDY BABUL REDDY

VISVODAYA INSTITUTE OF TECHNOLOGY & SCIENCE

(Affiliated to J.N.T.U.A, Approved by AICTE and Accredited by NAAC with 'A' Grade)

KAVALI - 524201, S.P.S.R Nellore Dist., A.P. India. Ph: 08626-243930



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Name:		Principles of Programming Languages										Univ. Marks	
S.No	Roll no.	MID-I					MID-II						
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5		
Max. Marks		10	10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	5	25
1	18731A0501	10	10			10	10		9		10	35	
2	18731A0502	10	10			9	10		6		8	39	
3	18731A0503	9	5			8	10		8		8	43	
4	18731A0504	10	4			9	10		3		8	37	
5	18731A0505	3					10				7	27	
6	18731A0506	9		3		4	10	9			10	37	
7	18731A0507	9	9.5		9.5		10		8		10	31	
8	18731A0508	9				9	10		9		10	26	
9	18731A0509	0					10		9		10	47	
10	18731A0510	10	10			9	10		8		9	29	
11	18731A0511	10	10			9	10		9		9	25	
12	18731A0512	9	4				10	8			9	30	
13	18731A0513	10	10			10	10		10		9	43	
14	18731A0514	9.5					10	8			9.5	32	
15	18731A0515	9.5	8			9	10		10		9	35	
16	18731A0516	10	8			9	10		9		10	32	
17	18731A0517	10	10			10	10		10		10	28	
18	18731A0518	10	4			2	10		5		8	11	
19	18731A0519	9	9.5		9		10	10		10		27	
20	18731A0520	10		10		9	10	2			10	39	
21	18731A0521	9.5		10		10	10	3			9	39	
22	18731A0522	10	9			10	10		10		10	27	
23	18731A0523	10	9.5			10	10	10			10	25	
24	18731A0524	10					0					9	
25	18731A0525	10	10			10	10	10			8	41	
26	18731A0526	9.5		9.5		9	9		9		10	52	
27	18731A0527	10		9.5	6		10	10			9	25	
28	18731A0528	9	7			9	10	6			7	42	
29	18731A0529	10		9		9.5	10		9		10	51	
30	18731A0530	8.5	9.5		9.5		10	10			10	25	
31	18731A0531	8.5	6			8	10	10			10	25	
32	18731A0532	8	9			9	9		8		8	25	
33	18731A0534	10	5			9.5	10		6		9	30	
34	18731A0535	10		9.5		9.5	10		9		10	25	
35	18731A0536	10		10		10	10		10		10	26	
36	18731A0537	9	8			8	10		7		9	34	
37	18731A0538	9.5		7		10	10				8	28	

Course Name:		Principles of Programming Languages										
S.No	Roll no.	MID-I					MID-II					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
38	18731A0539	10		7.5	9.5		8		10		9	25
39	18731A0540	10	8			9	10		5		8	29
40	18731A0541	10	9			9	10		10		10	47
41	18731A0543	10	10		7		10		7		7	27
42	18731A0544	9.5		9		10	10		9		9	41
43	18731A0545	9.5		3		9	0					25
44	18731A0546	9		4		9	10				10	36
45	18731A0547	5					10				8	25
46	18731A0548	10		8		8	9		6		10	38
47	18731A0549	5.5				8	5		4		4	28
48	18731A0550	10	9			9	10	4			10	33
49	18731A0551	8		7		7	10	6			10	29
50	18731A0552	8		9.5		8.5	10	4			10	34
51	18731A0553	10		3		8	10		4	4		13
52	18731A0554	10	10			9.5	10	10		10		29
53	18731A0555	10	10			9	10			10		33
54	18731A0556	10	6			9	9			10		25
55	18731A0557	9					10		4	10		25
56	18731A0558	10	9		9		10	10		9		33
57	18731A0559	10	8			10	10		10		10	33
58	18731A0560	7				9	5		3	4		25
59	18731A0561	9	10			9.5	10	10			9	25
60	18731A0562	10	10			10	10	9			10	34
61	18731A0563	9	9.5			9	10	9			10	29
62	18731A0564	9	8			9	10	6			10	32
63	18731A0565	10	10			10	10	10		10		35
64	18731A0566	10	9.5			8.5	10		8	10		28
65	18731A0567	10	3			10	10		2	10		28
66	18731A0568	9		3		9	10	2			10	28
67	18731A0569	8.5		9		9	10		9		8	29
68	18731A0570	9	9			9	10		7		10	40
69	18731A0571	9.5		10		8	10		8		8	25
70	18731A0572	10		8		9.5	10		10		10	54
71	18731A0573	7		8	5		0					10
72	18731A0574	10	9			10	10		8		8	27
73	18731A0575	10		8		10	10		9		10	28
74	18731A0576	10	10			10	10		10		10	30
75	18731A0577	10		8		9	10		7		9	40
76	18731A0578	10	8			9	10	10		9		32
77	18731A0579	10	10			10	10		9		10	34
78	18731A0580	10	10			9	10		10		9	30
79	18731A0581	10	10			10	10		10		10	32

Course Name:		Principles of Programming Languages										
S.No	Roll no.	MID-I					MID-II					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
80	18731A0582	10	10			8	10		10		9	33
81	18731A0583	9		5		7	10	8			10	45
82	18731A0584	8				7	10	8				45
83	18731A0585	8		8		10	10	9			10	22
84	18731A0586	9	7			9	10		8		10	35
85	18731A0587	7.5		3		9	10		9		10	13
86	18731A0588	10	10			10	10		8		10	27
87	18731A0589	10	9.5			9.5	10				10	54
88	18731A0590	10	9.5			8	10		6		6	18
89	18731A0591	10		10		10	10		8		9	24
90	18731A0592	10	10			9	10		8		10	30
91	18731A0593	9				8	10		8		9	28
92	18731A0594	10		5		10	10		10		9	24
93	18731A0595	10		10	9		10		9		10	25
94	18731A0596	10	10			8	10		9		10	45
95	18731A0597	9.5	9.5			9	6		5		9	32
96	18731A0598	10	2			9.5	10	4			9	32
97	18731A0599	10	8			9.5	10		9		8	27
98	18731A05A0	10	9			10	10		9		10	28
99	18731A05A1	10		10	10		10		10		10	25
100	18731A05A2	10		10		9	10		9		10	37
101	18731A05A3	10	10			10	10		9		10	41
102	18731A05A4	10	10			8	10		10		9	39
103	18731A05A5	10	8			4	6				5	51
104	18731A05A6	10	10		10		9	1		3		21
105	18731A05A7	10	10			9.5	10		9		9	23
106	18731A05A8	10	10			10	10		10		10	49
107	18731A05A9	10	10			10	10		7		9	40
108	18731A05B0	10	9			8	10		8		8	41
109	18731A05B1	10	10			10	10		10		9	33
110	18731A05B2	9					10		5		4	70
111	18731A05B3	10	10			10	10		10		10	20
112	18731A05B4	10	10			8	10		10		10	48
113	18731A05B5	5.5	7		8		4		6	6		45
114	18731A05B6	10	10			10	10		9		10	20
115	18731A05B7	4.5		4		5	7		5		6	53
116	18731A05B8	0					8		5		10	22
117	18731A05B9	10	10			10	10		6		10	26
118	18731A05C0	7.5	9.5			9.5	10		6		8	47
119	18731A05C1	9	5			9	10		10		7	37
120	18731A05C2	9	8			9	10		10	10		40
121	18731A05C3	7.5				7	9		4		9	53

Course Name:		Principles of Programming Languages										
S.No	Roll no.	MID-I					MID-II					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
122	18731A05C4	9.5		4		8	10		4		10	32
123	18731A05C5	8.5	6			5	10		4		5	44
124	18731A05C6	9.5		5		9.5	9		6		7	25
125	18731A05C7	8	9				9		5		10	46
126	18731A05C8	8.5		4		6	10		7		8	28
127	18731A05C9	10		8		9	10		10		10	25
128	18731A05D0	10	10			10	10		10		10	42
129	18731A05D1	10	10			9	10		9		10	41
130	18731A05D2	10	9.5			9.5	10		9		10	30
131	18731A05D3	10		8			4	9		5		48
132	18731A05D4	10	10			9.5	10		9		10	18
133	18731A05D5	10	9			9	8		6		8	29
134	18731A05D6	9.5	9			10	8		8		9	33
135	18731A05D7	7				9.5	10		9		10	38
136	18731A05D8	10		5	3		5		3		7	44
137	18731A05D9	10		4			5	3				27
138	18731A05E0	9		4	1		10				9	13
139	18731A05E1	8	8				10		9		10	17
140	18731A05E2	10		4		8	10		9		8	27
141	18731A05E3	9.5	9			9	10		10		9	23
142	18731A05E4	10		4	5		6	3	3			32
143	18731A05E5	10		6		9	10		4	9		7
144	18731A05E6	9	9			9	10		9		10	25
145	18731A05E7	9.5	10			9.5	10		10		8	24
146	18731A05E8	10		10		10	10		10		10	25
147	18731A05E9	9		4	9		7		3		6	44
148	18731A05F0	9		3	7		10		8		8	23
149	18731A05F1	5.5	4		8		8		7		2	32
150	18731A05F2	10		2	4		9.5				9.5	14
151	18731A05F3	10		10	9		10		9		9	25
152	18731A05F4	10		10		10	10		10		9	30
153	18731A05F5	8	7			3	8		6		7	49
154	18731A05F6	10				6	10			9		26
155	18731A05F7	10	6			8	10		9		10	7
156	18731A05F8	8		5		6	5				7	27
157	18731A05F9	10		5		9.5	10		6		10	28
158	18731A05G0	10		5		9	9		6		9	27
159	18731A05G1	10		5		9	10		5		10	25
160	18731A05G2	10		10		10	10		10		9	30
161	18731A05G3	8	7			3	8		6		7	49
162	18731A05G4	10				6	10			9		26
163	18731A05G5	10	6			8	10		9		10	7

Course Name:		Principles of Programming Languages										
S.No	Roll no.	MID-I					MID-II					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
164	18731A05G6	8		5		6	5				7	27
165	18731A05G7	10		5		9.5	10		6		10	28
166	18731A05G8	10		5		9	9		6		9	27
167	18731A05G9	10		5		9	10		5		10	25
Number of students attempted question		167	91	59	20	134	167	32	119	19	142	167
Number of students scoring more than 50%		163	85	43	17	129	162	23	106	16	139	143
Sum of Marks		1533.5	758.5	336.5	139.5	1156	1547.5	205	873	146	1264	4849
CO Attainment (By Marks) Percentage		91.83	83.35	57.03	69.75	86.27	92.66	64.06	73.36	76.84	89.01	41.48
CO Attainment Level		3	3	1	2	3	3	2	3	3	3	1
CO NUMBER		1,2	1	1	2	2	3,4,5	3	3	4	5	

94.07975

Course End Survey

CO	Excellent (3)	Good (2)	Poor (1)	Total-weighted	Attainment	Total No of
CO1	132	10	8	424	2.78	150
CO2	131	9	10	421	2.88	150
CO3	133	8	9	424	2.91	150
CO4	134	9	7	427	2.89	150
CO5	135	9	6	429	2.87	150

TOTAL 150

D/awf

Department
COMPUTER SCIENCE ENGINEERING
PBR Visvodaya Institute of Technology & Science
KAVALI - 524 201, SPSR Nellore Dt.

CO ATTAINMENT

Course Name:	GRID AND CLOUD COMPUTING	
Course Code:	15A05701	C412
Session of Course:	JUL2021 TO NOV 2021	
T:Tu	03:01	
Year/Semester	IV/I	
Credits:	3	
Batch:	2018-22	

CO MAPPING

COURSE OUTCOMES			MID-1	MID-2
C412.1	Expalin the Fundamentals of Distributed, Grid and Cloud Comuting		1,2,3	
C412.2	Describe the Functionality Requirements, Architecture, Practical & Detailed View of OGSA		1,4,5	
C412.3	Demonstrate the Cloud Deploymnet, Service Models, and Virtualization of different Resources			1,2,5
C412.4	Analyze the Programming Model of Globus Toolkit, and Hadoop Framework Concepts			1,3
C412.5	Discuss the Grid and Cloud Security Concepts			1,4

COs ATTAINMENT:

CO	CO Attainment Values						External Attainment level	Direct Attainment levels	Indirect (CES) Attainment Level	CO Attained	% CO Attained		
	Question wise												
C412.1	3.00	3.00	3.00			3.00	3.00	3.00	2.90	2.97	99.01	3	2.97
C412.2	3.00			3.00	3.00	3.00	3.00	3.00	2.89	2.97	98.94	3	2.97
C412.3	3.00	3.00			3.00	3.00	3.00	3.00	2.87	2.96	98.68	3	2.96
C412.4	3.00		3.00			3.00	3.00	3.00	2.88	2.96	98.81	3	2.96
C412.5	3.00			3.00		3.00	3.00	3.00	2.89	2.97	98.87	3	2.97

CO ATTAINMENT ANALYSIS:

Target: LEVEL 1.7 1.95

Based on the above result CO reached the target level.

PO ATTAINMENT

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO Attained
CO1	3	2	1									1	1	1	2.97
CO2	3	2	1									1	1	2	2.97
CO3	3	2	2									1	2	2	2.96
CO4	3	2	2		2							2	3	2	2.96
CO5	3	2	1									1	2	2	2.97
TOTAL	5	5	5	0	1	0	0	0	0	0	0	5	5	5	2.97

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Sum of CO*PO	14.83	9.89	6.92	0.00	1.98	0.00	0.00	0.00	0.00	0.00	0.00	5.93	8.89	8.90
CO-PO LEVEL	2.97	1.98	1.39	1.39	1.98	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.19	1.78	1.78
% CO-PO	99.00	66.00	46.33	46.33	66.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	39.67	59.33	59.33

Signature of the Faculty

[Signature]
In Charge


COMPUTER SCIENCE ENGINEERING
PBR Visvodaya Institute of Technology & Science
KAVALI - 524 201, SPSR Nellore Dt.



Course Name:		GRID AND CLOUD COMPUTING										
S.No	Roll no.	MID-I					MID-II					Univ. Marks
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	25	
1	18731A0501	8	10			8	10	10		10		45
2	18731A0502	9		8	9		10		10	9		46
3	18731A0503	9		6		5	9	10		10		35
4	18731A0504	7		8	8		9		8		5	46
5	18731A0505	7		9			10		10			36
6	18731A0506	5	7		9		10		10	10		50
7	18731A0507	10		10	9		10		10	10		47
8	18731A0508	10		10		10	10	10		10		54
9	18731A0509	10		10	10		10		10	8		52
10	18731A0510	10		10		10	10	10		10		51
11	18731A0511	10		10	8		10		10	10		52
12	18731A0512	7	9		6		7		10	8		42
13	18731A0513	10		10	10		10		10	8		52
14	18731A0514	10		10	8		2					42
15	18731A0515	9		9	7		8		7	10		48
16	18731A0516	10		10	10		10		10	9		46
17	18731A0517	10		10		8	10		10	9		56
18	18731A0518	5	5		8		8		7		5	46
19	18731A0519	10		10	10		10		10		10	47
20	18731A0520	10		10		9	10		10	10		46
21	18731A0521	10		10		8	10	9		9		48
22	18731A0522	10		10	10		10		10	10		47
23	18731A0523	10		10		10	10		10	10		48
24	18731A0524	10				9						29
25	18731A0525	10		10		8	10		10		10	45
26	18731A0526	9	10		9		9		10	7		43
27	18731A0527	9	10		9		10		10	8		44
28	18731A0528	5	6		6		7		7		6	44
29	18731A0529	10	10		10		9		10	10		55
30	18731A0530	10		10	10		10		10		9	38
31	18731A0531	9		10			8		6	6		44
32	18731A0532	7		9	9		7		10		8	39
33	18731A0534	8		10	9		10		9			33
34	18731A0535	10	10			9	10	10		8		48
35	18731A0536	10		10	10		10		10	10		40
36	18731A0537	7	8		9		10	9		10		44
37	18731A0538	9		6		9	9	10		10		34
38	18731A0539	9		10			9		9		8	29
39	18731A0540	7	8		7		10		10	8		43
40	18731A0541	10		10	10		10	10		10		45
41	18731A0543	9		8		7	10		9	9		39
42	18731A0544	10		10	10		10		10		10	51
43	18731A0545	10	10			9		A	A	A		25
44	18731A0546	9		5	8		10		10	4		49
45	18731A0547	6				10	9					28
46	18731A0548	9		9		7	10		10	10		42
47	18731A0549	3	10		7		4		10	10		25
48	18731A0550	8		8	7		9		9	8		36
49	18731A0551	9	8		8		10		10	10		51
50	18731A0552	10	10		10		10		10		10	48
51	18731A0553	2	9		9		6		10	7		32
52	18731A0554	10		10		10		10	10	8		41
53	18731A0555	9	7		9		10		9		10	35
54	18731A0556	7	5		9		9		10	9		35
55	18731A0557	10	10		8		9		10	8		25
56	18731A0558	9		7	9		10		10	10		48
57	18731A0559	10		10	8		10		10	10		41
58	18731A0560	4		8		2	9		5			25
59	18731A0561	10		10	10		10		10		10	43
60	18731A0562	10		10	8		10		10	10		45
61	18731A0563	8	7		8		9		10	9		39
62	18731A0564	10		10	9		10		9	10		39
63	18731A0565	10		9	10		10		10		9	42
64	18731A0566	10			10		10		10		6	35
65	18731A0567		A	A	A		9		10	8		36
66	18731A0568	10	6		9		10		10	9		33
67	18731A0569	10		10	10		10	6		8		48

Course Name:		GRID AND CLOUD COMPUTING											
S.No	Roll no.	MID-I					MID-II					Univ. Marks	
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5		
Max. Marks		10	10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25	
68	18731A0570	10			10		10		10	9		40	
69	18731A0571	10	9		9		10		10		9	52	
70	18731A0572	8		8				A	A	A		25	
71	18731A0573	10	10		10		10		10		10	40	
72	18731A0574	9		9	7	8	10		9	10		45	
73	18731A0575	10		10	10		10	10		10		46	
74	18731A0576	10		10	8		10	9		10		44	
75	18731A0577	7		7	8		10		10	9		41	
76	18731A0578	10		9	10		10	10		9		47	
77	18731A0579	9		8	9		10		10	10		43	
78	18731A0580	10		10	9		9	10		10		44	
79	18731A0581	7		9	9		9		9	9		46	
80	18731A0582	8	8		9		10		8	10		44	
81	18731A0583	10					10		5	8		25	
82	18731A0584	8		9		10	9		10	10		41	
83	18731A0585	10		10	9		10		10		10	49	
84	18731A0586	7		8		8	10		10		10	46	
85	18731A0587	10		10	10		10	10		9		49	
86	18731A0588	6		8		8	9	10		10		40	
87	18731A0589	9		9	10		10		10		10	27	
88	18731A0590	10		9	10		10		10	10		40	
89	18731A0591	9	8		9		10		10	9		37	
90	18731A0592	9		9	8		10	9		10		44	
91	18731A0593	10		10	10		10		10	10		53	
92	18731A0594	9		9		8	10		10	10		44	
93	18731A0595	6		10	8		8		9	8		27	
94	18731A0596	9			8		8		10	7		28	
95	18731A0597	9	7		8		9		9	9		45	
96	18731A0598	10		10	10		10	8		10		52	
97	18731A0599	10		10	10		10	9		10		51	
98	18731A05A0	10		10	10		10		10		10	47	
99	18731A05A1	10		9	10		10	10		10		46	
100	18731A05A2	9		10	9		10		10	9		37	
101	18731A05A3	9	8			8	10		10	9		38	
102	18731A05A4	9		9		10	10		10	9		34	
103	18731A05A5	8	8			9	10		10	10		51	
104	18731A05A6	10		10	9		10		10	10		49	
105	18731A05A7	10		10		8	10		9		10	53	
106	18731A05A8	10		9	7		9		10		10	41	
107	18731A05A9	10		10	9		10		10	10		63	
108	18731A05B0	10	10			9	10					48	
109	18731A05B1	10		10	9		10		10	10		61	
110	18731A05B2	8		10		9	10	10		9		40	
111	18731A05B3	7		8		8	7	6			3	39	
112	18731A05B4	7		9	9		9		10	10		60	
113	18731A05B5	10	4			4	10		6		5	47	
114	18731A05B6	4	5		8		6		7		4	35	
115	18731A05B7	9	10		10		10		10		10	47	
116	18731A05B8	5		9	8		8		9	8		37	
117	18731A05B9	10		10	10		10		10	4		36	
118	18731A05C0	9		7	9		9		10	9		61	
119	18731A05C1	10		9			9		8	5		47	
120	18731A05C2	8		10	9		10		10	10		37	
121	18731A05C3	9		8		6	8		10	8		52	
122	18731A05C4	7	8			9	8		10		10	60	
123	18731A05C5	10	10			10	10		10	10		33	
124	18731A05C6	9		7	9		7		10	9		37	
125	18731A05C7	10		10		8	10		10	10		64	
126	18731A05C8	10		10	10		10	10		10		38	
127	18731A05C9	9		10		9	10	10		10		35	
128	18731A05D0	8	8		8		9		8	7		60	
129	18731A05D1	5			8			A	A	A		49	
130	18731A05D2	10	10		9		9	7		9		34	
131	18731A05D3	9		8	8		10		10	9		28	
132	18731A05D4	8	9			8	10	10		9		35	
133	18731A05D5	10		10	8		6	10				31	
134	18731A05D6	10						A	A	A		48	
135	18731A05D7				10		9		10			47	
136	18731A05D8	8		8	9		7		10	10		56	
137	18731A05D9	5	8		7		10		10	5		38	
138	18731A05E0	6	8		9		9	10		9		59	
139	18731A05E1	9		10	8		8		10		10	26	

Course Name:		GRID AND CLOUD COMPUTING										Univ. Marks
S.No	Roll no.	MID-I					MID-II					
		Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	
Max. Marks		10	10	10	10	10	10	10	10	10	10	70
50% Marks		5	5	5	5	5	5	5	5	5	5	25
140	18731A05E2	9		2	8		10		7	6		50
141	18731A05E3	7		8	7		7	9			8	44
142	18731A05E4	10	10		9		10	10		10		56
143	18731A05E5	10		10		10	10	10		10		63
144	18731A05E6	10	10		10		10					50
145	18731A05E7	10	10		9		9		10	9		35
146	18731A05E8	8		10		6	6	9		9		49
147	18731A05E9	9	9		9		8	10	8			34
148	18731A05F0	9		8	8		9		10	10		53
149	18731A05F1	10	10		10		10		10	10		47
150	18731A05F2	10		10	10		10		10	9		63
151	18731A05F3	4					10			5		10
152	18731A05F4	8	10			10						56
153	18731A05F5	10		10		8	10		10	10		57
154	18731A05F6	10	10		9		8		10		10	63
155	18731A05F7	6		6	7		9		9		8	28
156	18731A05F8	9		1			9		9		6	37
157	18731A05F9	9		10	8		8		10		10	26
158	18731A05G0	9		2	8		10		7	6		50
159	18731A05G1	7		8	7		7	9			8	44
160	18731A05G2	10	10		9		10	10		10		56
161	18731A05G3	10		10		10	10	10		10		63
162	18731A05G4	10	10		10		10					50
163	18731A05G5	10	10		9		9		10	9		35
164	18731A05G6	8		10		6	6	9		9		49
165	18731A05G7	9	9		9		8	10	8			34
166	18731A05G8	9		8	8		9		10	10		53
167	18731A05G9	10	10		10		10		10	10		47
Number of students attempted		165	52	106	116	43	161	42	123	119	34	167
Number of students scoring more		160	50	102	115	41	159	38	119	113	32	166
Sum of Marks		1433	437	938	1017	349	1488	358	1128	1031	280	7246
CO Attainment (By Marks)		86.85	84.04	88.49	87.67	81.16	92.42	85.24	91.71	86.64	82.35	61.98
CO Attainment Level		3	3	3	3	3	3	3	3	3	3	3
CO NUMBER		1,2	1	1	2	2	3,4,5	3	4	5	3	

89.5625

Course End Survey

CO	Excellent (3)	Good (2)	Poor (1)	Total-weighted	Attainment	No Of students
CO1	139	9	3	438	2.90	151
CO2	138	10	3	437	2.89	151
CO3	135	12	4	433	2.87	151
CO4	137	10	4	435	2.88	151
CO5	138	9	4	436	2.89	151
TOTAL		151				

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2018 ADMITTED BATCH PO/PSO ATTAINED VALUES

S.NO	COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	C111	Functional English	1.04			1.71		0.71	1.82		1.62	2.19				
2	C112	Mathematics – I	1.74	1.61	1.36	1.44	1.11									
3	C113	Computer Programming	0.48	0.67	1.13											
4	C114	Engineering Physics	0.74	1.06	1.53	1.43								1.95	2.67	1.95
5	C115	Engineering Drawing	1.50	1.09	1.06	1.53						1.60				
6	C116	English Language Communication Skills Lab									1.96	2.35				
7	C117	Engineering Physics Lab	2.89	2.65												
8	C118	Computer Programming Lab	2.59	1.94	2.92											
9	C121	English for Professional Communication					1.19	1.17	0.80	0.00	0.58	0.80				
10	C122	Mathematics-II	1.87	1.38	1.37	1.35	0.63							1.26		
11	C123	Data Structures	0.44	0.73	0.81										1.44	1.73
12	C124	Engineering Chemistry	1.25	0.83	0.66	1.25	0.73	1.06	0.87	0.53	0.52	0.63	0.52	0.62		
13	C125	Environmental Studies	0.78	0.92	0.56	1.71	0.94	1.04	1.17	1.39	1.29	1.19	0.72			
14	C126	Data Structures Lab	2.67	1.95	1.30	1.83									1.54	1.83
15	C127	Engineering Chemistry Lab	1.58	1.46		1.71	1.58	0.88	0.88	1.32	2.10	1.17	0.88	1.05		
16	C128	Engineering & IT Workshop	2.14	1.75												
17	C211	Mathematics – III	2.05	2.42	2.23	2.42	1.67									
18	C212	Database Management Systems	1.86	1.86	2.04	2.02	1.53				2.55		2.50	2.50	1.50	1.86
19	C213	Discrete Mathematics	1.94	2.11	2.29	1.93	2.11									
20	C214	Basic Electrical and Electronics Engineering	2.48	0.83	1.75											
21	C215	Digital Logic Design	1.60	1.61	1.60									1.07		
22	C216	Managerial Economics and Financial Analysis											2.45			
23	C217	Database Management System Laboratory	1.25	2.25	1.75	1.75	1.50				1.75		1.75	2.25	1.75	2.25
24	C218	Basic Electrical and Electronics Laboratory	2.99								1.99	1.99				

2018 ADMITTED BATCH PO/PSO ATTAINED VALUES

S.NO	COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
25	C221	Probability and Statistics		1.57	8.49	1.57	8.49									
26	C222	Software Engineering	0.84	1.09	1.39	1.13	3.16	0.00	0.00	0.65	5.74	7.48	0.64	6.28	1.73	1.56
27	C223	Computer Organization	1.73	1.84	1.89										1.68	1.68
28	C224	Microprocessors & Interfacing	1.50	1.61	1.08	1.26	0.55							1.09	1.71	1.54
29	C225	Object Oriented Programming using Java	0.81	1.30	1.30	1.05	0.90			0.80			0.80	1.28	1.40	1.39
30	C226	Formal Languages and Automata Theory	1.71	1.10	1.71	1.71	1.71	0.61					0.61	0.61	1.71	1.58
31	C227	Microprocessors & Interfacing Laboratory	2.94	2.55	2.36	2.36	2.94							2.94	2.94	2.94
32	C228	Java Programming Laboratory	2.99	2.99	2.99	2.99	2.66				2.99		2.99	2.99	2.99	1.80
33	C229	COE-I	2.96	2.31												
34	C311	Operating Systems	1.90	1.61	1.61	1.33									1.27	1.90
35	C312	Computer Networks	1.89	1.89	1.43	1.27									1.76	1.89
36	C313	Object Oriented Analysis and Design	1.95	1.95	1.92		1.94								1.65	1.64
37	C314	Principles of Programming Languages	1.62	1.49	1.82		0.00								1.82	1.82
38	C315	Software Testing	1.56	1.31	0.82	1.66	0.66							0.65	1.65	1.56
39	C316	Introduction to Big Data	1.16	1.33	1.00	1.32	1.99	0.66		0.67			1.98	1.99	1.83	1.32
40	C317	Object Oriented Analysis and Design & Software Testing Laboratory	1.39	2.39	2.73	2.49	2.73								2.48	1.53
41	C318	Operating Systems Laboratory	1.19	1.98	2.23	1.98	1.98								2.23	1.66
42	C319	Audit course – Social Values & Ethics				1.32		1.48		1.48						
43	C321	Compiler Design	1.92	1.28	1.40	1.16	1.67						0.64	1.28	1.53	1.66
44	C322	Data Warehousing & Mining	2.48	2.21	0.00	1.66	2.49								1.99	1.66
45	C323	Design Patterns	1.96	1.77	1.57	1.23	0.99							1.46	1.52	1.38
46	C324	Design and Analysis of Algorithms	1.70	1.56	0.91									0.00	1.51	1.66
47	C325	Web and Internet Technologies	1.98	1.98	1.98	1.32	1.32	0.66	0.66	0.66	0.66	0.66	0.66	0.66	1.98	1.98
48	C326	Artificial Intelligence	1.75	1.40	1.31	1.65	1.65	1.42	1.75	1.53	1.19	1.27	0.91	1.51	1.75	1.75
49	C327	Web and Internet Technologies Laboratory	1.97	1.97	1.97	2.96	2.96	0.99	0.99	0.99	0.99	0.99	0.99	2.96	2.96	2.96
50	C328	Data Warehousing & Mining Lab	2.71	2.47	2.94	1.97	2.47				1.97	1.97				2.47
51	C329	Advanced English Language communication Skills(AELCS)Laboratory									2.96	2.96				
52	C3210	COE-II	2.97	2.32											1.98	1.98

2018 ADMITTED BATCH PO/PSO ATTAINED VALUES

S.NO	COURSE CODE	COURSE NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
53	C411	Management Science															
54	C412	Grid & Cloud Computing	2.97	1.98	1.39	1.39	1.98						2.41				
55	C413	Information Security	1.60	1.47	1.07	1.34								1.19	1.78	1.78	
56	C414	Mobile Application Development	2.01	2.01	2.01	1.34	1.34	0.67	0.67	0.67	0.67	0.67	0.67	1.47	1.78	1.64	
57	C415	Software Architecture	2.46	1.97	2.13	1.44	2.04								1.68	1.51	
58	C416	Software Project Management	2.15	2.48		1.98	1.65								1.65	2.48	
59	C417	Grid & Cloud Computing Laboratory	2.39	2.20	2.20		2.00	3.00						2.00	1.60	1.80	
60	C418	Mobile Application Development Laboratory	1.60	1.60	1.60	2.40	2.40	0.80	0.80	0.80	0.80	0.80	0.80	2.40	2.40	2.40	
61	C421	Mobile Computing	1.83	1.83	1.96									0.66	1.51	1.96	
62	C422	Enabling Technologies for Data Science	2.00	2.00	2.00	1.07		0.67			0.67			1.00	1.94	1.67	
63	C423	Comprehensive Viva-Voce	1.50	1.00							1.80	1.80					
64	C424	Technical Seminar	1.49	0.99		1.49					1.49	2.38			1.55	2.48	
65	C425	Project Work	2.19	2.59		2.79	2.33				2.99	2.99		2.24	2.48	2.60	
PO ASSESMENT LEVEL			1.86	1.73	1.78	1.69	1.89	0.99	0.95	0.89	1.74	1.89	1.27	1.66	1.88	1.88	1.58
			1.48	1.38	1.43	1.35	1.51	0.79	0.76	0.71	1.39	1.51	1.02	1.32	1.50	1.51	52.62


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GRADUATE EXIT SURVEY

PO NO	PO DESCRIPTION	Satisfactory	Moderate	Unsatisfactory	TOTAL	LEVEL OF ATTAINMENT	%	ASSESSMENT VALUE
		3	2	1				
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	120	6	4	130	2.89	96.41	0.29
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	118	11	1	130	2.90	96.67	0.29
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	120	9	1	130	2.92	97.18	0.29
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	119	8	3	130	2.89	96.41	0.29
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.	121	7	2	130	2.92	97.18	0.29
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	118	7	5	130	2.87	95.64	0.29
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	117	7	6	130	2.85	95.13	0.29
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	118	7	5	130	2.87	95.64	0.29
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	120	7	3	130	2.90	96.67	0.29
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	119	7	4	130	2.88	96.15	0.29

GRADUATE EXIT SURVEY								
PO NO	PO DESCRIPTION	SAISFACTORY	MODERATE	UNSATISFACTORY	TOTAL	LEVEL OF ATTAINMENT	%	ASSESMET VALUE
		3	2	1				
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.	119	7	4	130	2.88	96.15	0.29
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	120	6	4	130	2.89	96.41	0.29
PSO1	Responsive to ideas: An ability to get an employment in Computer Science and Engineering field and related to software industries and analyze the complex problems in DBMS, Networking, IOT, Mobile Computing, Artificial Intelligence and Cloud Computing.	114	13	3	130	2.85	95.13	0.29
PSO2	Domain Expertise: Capabilities to understand, design and implement coding for solving real world problems using advanced programming languages like Java, PHP, Python, Android Studio, Hadoop Framework, AWS, R and Weka etc.	115	10	5	130	2.85	94.87	0.28

D. Jaw

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ALMUNI SURVEY

PO NO	PO DESCRIPTION	ISFACTO	ODERA	SATISFACTO	TOTAL	LEVE L OF ATTA INME	%	SMEN T VALU
		3	2	1				
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	15	9	7	31	2.26	75.27	0.11
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	13	12	6	31	2.23	74.19	0.11
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	10	13	8	31	2.06	68.82	0.10
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	13	11	7	31	2.19	73.12	0.11
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.	15	10	6	31	2.29	76.34	0.11
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	11	15	5	31	2.19	73.12	0.11

ALMUNI SURVEY

PO NO	PO DESCRIPTION	ISFACTO	OODERA	SATISFACTO	TOTAL	LEVE L OF ATTA INME	%	SMEN T VALU
		3	2	1				
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	9	15	7	31	2.06	68.82	0.10
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	12	11	8	31	2.13	70.97	0.11
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	15	12	4	31	2.35	78.49	0.12
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	13	12	6	31	2.23	74.19	0.11
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.	14	11	6	31	2.26	75.27	0.11
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	17	9	5	31	2.39	79.57	0.12
PSO1	Responsive to ideas: An ability to get an employment in Computer Science and Engineering field and related to software industries and analyze the complex problems in DBMS, Networking, IOT, Mobile Computing, Artificial Intelligence and Cloud Computing.	12	15	4	31	2.26	75.27	0.11
PSO2	Domain Expertise: Capabilities to understand, design and implement coding for solving real world problems using advanced programming languages like Java, PHP, Python, Android Studio, Hadoop Framework , AWS, R and Weka etc.	17	10	4	31	2.42	80.65	0.12


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EMPLOYER SURVEY

PO NO	PO DESCRIPTION	ISFACTO	ODERA	SATISFACTO	TOTAL	LEVE L OF ATTA INME	%	SMEN T VALU
		3	2	1				
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	2	6	0	8	2.25	75.00	0.11
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	2	5	1	8	2.13	70.83	0.11
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	1	6	1	8	2.00	66.67	0.10
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	2	5	1	8	2.13	70.83	0.11
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.	2	6	0	8	2.25	75.00	0.11
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	2	5	1	8	2.13	70.83	0.11
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	2	5	1	8	2.13	70.83	0.11
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	3	4	1	8	2.25	75.00	0.11

EMPLOYER SURVEY								
PO NO	PO DESCRIPTION	ISFACTO	ODERA	SATISFACT	TOTAL	LEVEL OF ATTAINME	%	SMEN T VALU
		3	2	1				
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	3	2	1	8	2.38	79.17	0.12
PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	3	5	0	8	2.00	66.67	0.10
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.	1	6	1	8	2.00	66.67	0.10
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	2	5	1	8	2.13	70.83	0.11
PSO1	Responsive to ideas: An ability to get an employment in Computer Science and Engineering field and related to software industries and analyze the complex problems in DBMS, Networking, IOT, Mobile Computing, Artificial Intelligence and Cloud Computing.	2	6	0	8	2.25	75.00	0.11
PSO2	Domain Expertise: Capabilities to understand, design and implement coding for solving real world problems using advanced programming languages like Java, PHP, Python, Android Studio, Hadoop Framework , AWS, R and Weka etc.	2	5	1	8	2.13	70.83	0.11
		2	6	0	8	2.25	75.00	0.11


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2018 ADMITTED BATCH - CO'S ATTAINED VALUES

S.NO	COURSE CODE	COURSE NAME	TARGETED VALUE					ATTAINED VALUES				
			CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1	C111	Functional English	1.95	1.95	1.95	1.95	1.95	2.42	2.44	2.12	2.13	1.83
2	C112	Mathematics – I	1.95	1.95	1.95	1.95	1.95	1.84	1.91	1.90	1.83	1.81
3	C113	Computer Programming	1.95	1.95	1.95	1.95	1.95	2.29	2.08	2.27	2.17	2.40
4	C114	Engineering Physics	1.8	1.8	1.8	1.8	1.8	1.55	1.56	1.63	1.58	1.49
5	C115	Engineering Drawing	1.8	1.8	1.8	1.8	1.8	1.63	1.91	1.48	1.48	1.49
6	C116	English Language Communication Skills Lab	2.4	2.4	2.4	2.4	2.4	2.91	2.93	2.94	2.94	3.24
7	C117	Engineering Physics Lab	2.4	2.4	2.4	2.4		2.88	2.89	2.88	2.89	
8	C118	Computer Programming Lab	2.4	2.4	2.4	2.4	2.4	2.9	2.92	2.90		
9	C121	English for Professional Communication	1.8	1.8	1.8	1.8	1.8	1.72	1.81	1.75	1.55	1.34
10	C122	Mathematics-II	1.95	1.95	1.95	1.95	1.95	1.87	1.82	1.87	1.88	1.89
11	C123	Data Structures	2.1	2.1	2.1	2.1	2.1	2.65	2.58	2.86	2.44	2.66
12	C124	Engineering Chemistry	1.95	1.95	1.95	1.95	1.95	1.56	1.55	1.49	1.47	1.70
13	C125	Environmental Studies	1.65	1.65	1.65	1.65	1.65	1.49	1.49	1.65	1.70	1.69
14	C126	Data Structures Lab	2.4	2.4	2.4	2.4		2.92	2.90	2.91	2.91	
15	C127	Engineering Chemistry Lab	2.4	2.4	2.4	2.4	2.4	2.62	2.61	2.64	2.58	2.62
16	C128	Engineering & IT Workshop	2.4	2.4	2.4	2.4	2.4	2.88	2.92	2.91	2.91	2.91
17	C211	Mathematics – III	2.1	2.1	2.1	2.1	2.1	2.79	2.80	2.80	2.77	2.76
18	C212	Database Management Systems	2.1	2.1	2.1	2.1	2.1	2.65	2.66	2.66	2.33	2.32
19	C213	Discrete Mathematics	2.1	2.1	2.1	2.1	2.1	2.65	2.66	2.66	2.59	2.59
20	C214	Basic Electrical and Electronics Engineering	2.1	2.1	2.1	2.1		2.14	2.51	2.63	2.50	2.62
21	C215	Digital Logic Design	2.1	2.1	2.1	2.1	2.1	1.55	1.63	1.63	1.57	1.57
22	C216	Managerial Economics and Financial Analysis	1.95	1.95	1.95	1.95	1.95	2.69	2.13	2.68	2.10	2.61
23	C217	Database Management System Laboratory	2.4	2.4	2.4	2.4		2.99	2.99	2.99	2.98	
24	C218	Basic Electrical and Electronics Laboratory	2.4	2.4	2.4			2.99	2.98	2.98		

2018 ADMITTED BATCH - CO'S ATTAINED VALUES

S.NO	COURSE CODE	COURSE NAME	TARGETED VALUE					ATTAINED VALUES				
			CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
25	C221	Probability and Statistics	1.8	1.8	1.8	1.8	1.8	1.96	1.95	1.96	1.95	1.96
26	C222	Software Engineering	1.8	1.8	1.8	1.8	1.8	1.63	1.74	1.95	1.97	1.96
27	C223	Computer Organization	1.95	1.95	1.95	1.95	1.95	1.91	1.83	1.76	1.86	1.88
28	C224	Microprocessors & Interfacing	1.8	1.8	1.8	1.8	1.8	1.62	1.59	1.60	1.58	1.63
29	C225	Object Oriented Programming using Java	1.8	1.8	1.8	1.8	1.8	1.74	1.54	1.91	1.87	1.60
30	C226	Formal Languages and Automata Theory	1.8	1.8	1.8	1.8	1.8	1.73	1.79	1.90	1.87	1.84
31	C227	Microprocessors & Interfacing Laboratory	2.4	2.4	2.4	2.4	2.4	2.94	2.94	2.94	2.97	2.91
32	C228	Java Programming Laboratory	2.4	2.4	2.4			2.98	2.99	2.99		
33	C229	COE-I	2.4	2.4	2.4	2.4		2.95	2.96		2.97	
34	C311	Operating Systems	1.95	1.95	1.95	1.95	1.95	1.92	1.91	1.90	1.98	1.78
35	C312	Computer Networks	1.95	1.95	1.95	1.95	1.95	1.75	1.83	1.89	1.97	1.98
36	C313	Object Oriented Analysis and Design	1.95	1.95	1.95	1.95	1.95	1.97	1.96	1.96	1.96	1.88
37	C314	Principles of Programming Languages	1.95	1.95	1.95	1.95	1.95	1.61	1.63	1.85	1.78	1.77
38	C315	Software Testing	1.95	1.95	1.95	1.95	1.95	1.90	1.86	1.97	1.97	1.99
39	C316	Introduction to Big Data	1.95	1.95	1.95	1.95	1.95	1.98	1.97	1.99	1.98	2.00
40	C317	Object Oriented Analysis and Design & Software Testing Laboratory	2.4	2.4	2.4	2.4	2.4	2.97	2.98	2.97	2.97	2.99
41	C318	Operating Systems Laboratory	2.4	2.4	2.4	2.4		2.98	2.95	2.95	2.96	
42	C319	Audit course – Social Values & Ethics	2.4	2.4	2.4	2.4	2.4	1.50	1.37	1.49	1.49	1.51
43	C321	Compiler Design	1.95	1.95	1.95	1.95	1.95	1.98	1.87	1.86	1.86	1.98
44	C322	Data Warehousing & Mining	1.95	1.95	1.95	1.95	1.95	2.47	2.48	2.46	2.48	2.49
45	C323	Design Patterns	1.95	1.95	1.95	1.95	1.95	2.96	2.87	2.97	2.91	2.98
46	C324	Design and Analysis of Algorithms	1.95	1.95	1.95	1.95	1.95	1.98	1.97	1.98	1.98	1.85
47	C325	Web and Internet Technologies	1.8	1.8	1.8	1.8	1.8	1.98	1.99	1.97	1.98	1.98
48	C326	Artificial Intelligence	1.95	1.95	1.95	1.95	1.95	1.61	1.55	1.89	1.85	1.86
49	C327	Web and Internet Technologies Laboratory	2.4	2.4	2.4	2.4	2.4	2.96	2.97	2.94	2.93	2.95
50	C328	Data Warehousing & Mining Lab	2.4	2.4	2.4	2.4		2.97	2.94	2.93	2.96	
51	C329	Advanced English Language communication Skills(AELCS)Laborator	2.4	2.4	2.4	2.4	2.4	2.94	2.94	2.95	2.96	2.97
52	C3210	COE-II	2.4	2.4	2.4			2.97	2.96	2.98		

2018 ADMITTED BATCH - CO'S ATTAINED VALUES

S.NO	COURSE CODE	COURSE NAME	TARGETED VALUE					ATTAINED VALUES				
			CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
53	C411	Management Science	1.95	1.95	1.95	1.95	1.95	2.42	2.49	2.35	2.38	2.39
54	C412	Grid & Cloud Computing	1.95	1.95	1.95	1.95	1.95	2.97	2.97	2.96	2.96	2.97
55	C413	Information Security	1.8	1.8	1.8	1.8	1.8	2.00	2.00	1.89	2.01	1.94
56	C414	Mobile Application Development	1.95	1.95	1.95	1.95	1.95	2.00	2.00	1.99	2.00	2.01
57	C415	Software Architecture	1.95	1.95	1.95	1.95	1.95	2.43	2.38	2.48	2.49	2.50
58	C416	Software Project Management	1.95	1.95	1.95	1.95	1.95	2.48	2.49	2.48	2.42	2.50
59	C417	Grid & Cloud Computing Laboratory	2.4	2.4	2.4	2.4	2.4	2.99	2.98	2.99	2.99	2.98
60	C418	Mobile Application Development Laboratory	2.4	2.4	2.4	2.4	2.4	2.99	2.99	2.98	2.99	2.99
61	C421	Mobile Computing	1.95	1.95	1.95	1.95	1.95	1.99	2.00	1.78	2.00	2.00
62	C422	Enabling Technologies for Data Science	1.95	1.95	1.95	1.95	1.95	2.00	1.99	2.00	1.99	2.01
63	C423	Comprehensive Viva-Voce	2.4	2.4	2.4	2.4	2.4	2.99	2.99	2.99	2.99	2.99
64	C424	Technical Seminar	2.4	2.4	2.4	2.4	2.4	2.96	2.97	2.97	2.98	2.97
65	C425	Project Work	2.4	2.4	2.4	2.4	2.4	2.98	2.98	2.98	2.98	2.98


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2018 ADMITTED BATCH-COURSE-PO/PSO MAPPING

YEARS.NO	SUBJECT NAME	COURS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
I-I	1 Functional English	C111	0	0	0	0	0	0	0	0	3	3	3	0	0	0
	2 Mathematics – I	C112	3	3	0	2	0	0	0	0	0	0	0	0	0	0
	3 Computer Programming	C113	3	3	2	0	3	0	0	0	0	0	0	0	0	2.4
	4 Engineering Physics	C114	2.8	2.4	0	0	0	0	0	0	0	0	0	0	0	2
	5 Engineering Drawing	C115	3	2	2	0	0	0	0	0	2	0	0	0	0	0
	6 English Language Communication Skills La	C116	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	7 Engineering Physics Lab	C117	3	3	0	0	0	0	0	0	3	3	0	0	0	0
	8 Computer Programming Lab	C118	3	2	2	0	2	0	2.5	0	3	3	0	0	2	0
I-II	9 English for Professional Communication	C121	0	0	0	0	0	0	0	0	3	3	0	0	3	2.5
	10 Mathematics-II	C122	3	3	0	2	0	0	0	0	3	3	3	0	0	0
	11 Data Structures	C123	3	3	2.5	2	0	0	0	0	0	0	0	2	2	0
	12 Engineering Chemistry	C124	3	0	0	0	0	0	3	2	0	0	0	0	2	2
	13 Environmental Studies	C125	2.8	0	0	0	0	2.6	2.4	0	0	0	0	0	0	0
	14 Data Structures Lab	C126	3	3	0	2	0	0	0	0	2	2	0	2	2	2
	15 Engineering Chemistry Lab	C127	3	0	0	0	0	2	2	0	3	2	0	0	0	0
	16 Engineering & IT Workshop	C128	3	0	3	0	0	0	0	0	2	2	0	0	0	0
II-I	17 Mathematics – III	C211	3	2	0	2	0	0	0	0	0	0	0	0	0	0
	18 Database Management Systems	C212	3	3	3	2	0	0	0	0	0	0	0	2	2	0
	19 Discrete Mathematics	C213	3	2.5	0	3	0	0	0	0	0	0	0	0	2.4	0
	20 Basic Electrical and Electronics Engineering	C214	3	0	2	0	0	0	0	0	0	0	0	2.4	2	0
	21 Digital Logic Design	C215	3	3	3	0	0	0	0	0	0	0	0	0	0	0
	22 Managerial Economics and Financial Analy	C216	0	0	0	0	0	0	0	0	0	0	0	2	0	0
	23 Database Management System Laboratory	C217	3	2	3	2	2	0	0	0	2	2	0	0	0	0
	24 Basic Electrical and Electronics Laboratory	C218	3	0	2	0	0	0	0	0	2	2	0	0	2.333	2.667
II-II	25 Probability and Statistics	C221	3	2.75	0	2	0	0	0	0	0	0	0	2	2	0
	26 Software Engineering	C222	3	2.5	2.5	2	0	0	0	0	0	0	0	2	2	0
	27 Computer Organization	C223	2.8	3	3	0	0	0	0	0	0	0	2	0	2.8	0
	28 Microprocessors & Interfacing	C224	3	3	0	0	0	0	0	0	0	0	0	0	2.75	0
	29 Object Oriented Programming using Java	C225	3	3	3	0	0	0	0	0	0	0	0	0	0	0
	30 Formal Languages and Automata Theory	C226	3	3	3	2	0	0	0	0	0	0	0	0	2	2.4
	31 Microprocessors & Interfacing Laboratory	C227	3	3	0	0	0	0	0	0	0	0	0	0	0.0	0
	32 Java Programming Laboratory	C228	3	2.7	2.5	0	0	0	0	0	2	2	0	0	0	0
	33 COE-I	C229	3	2.333	0	0	0	0	0	0	0	2	2	0	0	0

2018 ADMITTED BATCH-COURSE-PO/PSO MAPPING

YEAR	S.NO	SUBJECT NAME	COURS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
III-I	34	Operating Systems	C311	3	2.667	0	2	0	0	0	0	0	0	0	0	0	0
	35	Computer Networks	C312	3	3	2.25	2	0	0	0	0	0	0	0	0	3	3
	36	Object Oriented Analysis and Design	C313	3	3	3	0	0	0	0	0	0	0	0	0	0	0
	37	Principles of Programming Languages	C314	2.8	2.6	3	0	0	0	0	0	0	0	0	0	0	0
	38	Software Testing	C315	3	3	0	0	0	0	0	0	0	0	0	0	0	0
	39	Introduction to Big Data	C316	3	3	3	3	3	0	0	0	0	0	0	0	0	2.2
	40	Object Oriented Analysis and Design & Sof	C317	3	2.8	3	0	3	0	0	0	0	0	0	0	3	3
	41	Operating Systems Laboratory	C318	3	3	0	3	2	0	0	0	2	2	0	0	2.5	3
	42	Audit course – Social Values & Ethics	C319	0	0	0	0	0	0	0	3	0	0	0	0	2	0
III-II	43	Compiler Design	C321	2.8	3	3	0	0	0	0	0	0	0	0	0	0	0
	44	Data Warehousing & Mining	C322	3	2.667	0	2	3	0	0	0	0	0	0	0	2.4	2
	45	Design Patterns	C323	2.6	2.75	3	2	0	0	0	0	0	0	0	0	0	0
	46	Design and Analysis of Algorithms	C324	3	2.6	0	2	0	0	0	0	0	0	0	0	2	0
	47	Web and Internet Technologies	C325	3	2.6	3	0	2.5	0	0	0	0	0	0	0	2	2
	48	Artificial Intelligence	C326	2.8	2.75	3	2	3	0	0	0	0	0	0	0	2	2
	49	Web and Internet Technologies Laboratory	C327	3	2.6	3	0	2.5	0	0	0	2	2	0	0	2	2.00
	50	Data Warehousing & Mining Lab	C328	2.75	2.5	3	2	2.5	0	0	0	2	2	0	0	2	2.5
	51	Advanced English Language communicati	C329	0	0	0	0	0	0	0	0	3	3	0	0	0	0
	52	COE-II	C3210	3	2.333	0	0	0	0	0	0	0	0	0	0	0	0
IV-I	53	Management Science	C411	0	0	0	0	0	0	0	0	0	0	3	0	0	0
	54	Grid & Cloud Computing	C412	2.6	3	0	2.4	2	0	0	0	0	0	0	0	2	3
	55	Information Security	C413	2.4	3	0	3	0	0	0	0	0	0	0	0	3	2.4
	56	Mobile Application Development	C414	3	2.5	3	2.333	0	0	0	0	0	0	0	0	2.0	2.75
	57	Software Architecture	C415	2.8	2.75	3	3	2.5	0	0	0	0	0	0	0	2	2
	58	Software Project Management	C416	2.6	2.75	0	0	0	0	0	0	3	0	2	0	0	0
	59	Grid & Cloud Computing Laboratory	C417	2	3	3	2	2	0	0	0	2	2	0	0	2.5	0
	60	Mobile Application Development Laborator	C418	2	2.5	2.75	2	2	0	0	0	2	2	0	0	3	3
IV-II	61	Mobile Computing	C421	2.8	2.333	3	0	2	0	0	0	0	0	0	0	3	0
	62	Enabling Technologies for Data Science	C422	2.8	2.667	3	3	3	0	0	0	0	0	0	0	3	3
	63	Comprehensive Viva-Voce	C423	3	2	0	0	0	0	0	0	3	3	0	0	0.00	0.00
	64	Technical Seminar	C424	2	2	0	2	0	0	0	0	3	3	0	0	0	0
	65	Project Work	C425	2.2	2.6	0	2.8	2.333	0	0	0	3	3	0	2.25	0	0


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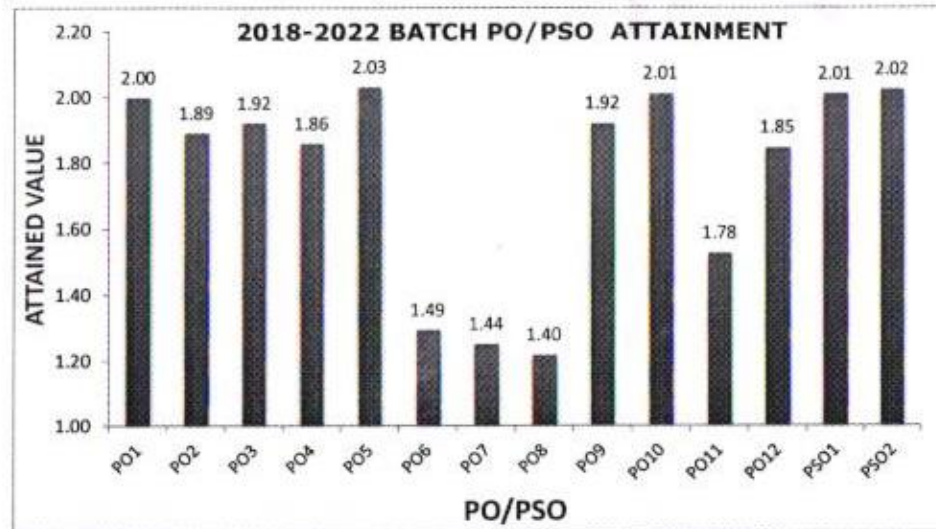
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PO/PSO ATTAINMENT

BATCH:2018-2022

PO		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
DIRECT ATTAINMENT LEVEL	PO ASSESMENT(80%)	1.48	1.38	1.43	1.35	1.51	0.79	0.76	0.71	1.39	1.51	1.02	1.32	1.50	1.51
INDIRECT ATTAINMENT LEVEL	GES(10%)	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28
	AS(5%)	0.11	0.11	0.10	0.11	0.11	0.11	0.10	0.11	0.12	0.11	0.11	0.12	0.11	0.12
	ES(5%)	0.11	0.11	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.10	0.11	0.11	0.11
PO ATTAINMENT LEVEL		2.00	1.89	1.92	1.86	2.03	1.29	1.25	1.22	1.92	2.01	1.53	1.85	2.01	2.02
TARGET LEVEL		1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85
PO ATTAINMENT		A	A	A	A	A	NA	NA	NA	A	A	NA	A	A	A



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