

Department of Electronics and Communication Engineering
CO-PO Mapping (Batch-2017-21)

S.No	SUBJECT CODE/SUBJECT NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	RAS103 /RAS203ENGINEERING MATHS-I	3.0	3.0	1.0	2.2								1.0
2	RAS-101 ENGINEERING PHYSICS-I	3.0	3.0	2.0	3.0	3.0							1.0
3	REE-101/REE201 BASIC ELECTRICAL ENGINEERING	1.5	1.8	2.0	3.0	3.0	2.0	2.0					2.0
4	RME-101/RME201 ELEMENTS OF MECHANICAL ENGINEERING	2.0	2.2	2.0	2.0	2.3	1.7	2.0				2.0	2.0
5	RAS-104/RAS204 PROFESSIONAL COMMUNICATION	2.0				3.0			1.5	2.7	3.0		2.3
6	RCS-101/RCS201 COMPUTER SYSTEM AND PROGRAMMING IN C	2.0	2.8	3.0	3.0	3.0							
7	REC-101/REC201 BASIC ELECTRONICS	3.0	2.0	2.0	1.6	2.0	1.3	2.0			1.0	1.0	1.0
8	RAS-102/RAS202 ENGINEERING CHEMISTRY	2.6	2.4	2.8	3.0			2.6					
9	RAS203ENGINEERING MATHS-II	3.0	2.8		2.5								
10	RAS201 ENGINEERING PHYSICS-II	3.0	2.8		3.0								
11	RAS301 MATHS-III	3.0	2.8		2.5								
12	RVE301 UNIVERSAL HUMAN VALUES AND PROFESSIONAL ETHICS							1.3	2.0	1.3			1.0
13	REE305 NETWORK ANALYSIS AND SYNTHESIS	2.0	2.3	2.3	3.0	3.0	1.5	1.0				1.0	1.0
14	REC301 DIGITAL LOGIC DESIGN	2.0	2.0	2.3	3.0	3.0	1.0	1.0					1.0
15	REC302 ELECTRONICS DEVICES AND CIRCUIT	2.0	2.3	2.2	3.0	3.0	1.0						1.0
16	REC303 SIGNAL AND SYSTEM	2.0	2.2	2.6	3.0	3.0	3.0	1.0					1.5
17	REC351 DIGITAL LOGIC DESIGN LAB	2.2	2.4	2.6	1.8	2.2				2.2			
18	REC-352 ELECTRONICS DEVICE AND CIRCUIT LAB	2.4	2.4	2.0	2.0	2.2				2.2			
19	REC353 SIGNAL AND SYSTEM LAB	2.2	2.6	2.6	2.4	2.2				2.0			
20	REC354 PCB & E/W LAB	1.6	1.6	2.0	1.6	2.2				1.4			
21	ROE043 LASER SYSTEM AND APPLICATION	2.5	2.0	2.0	2.5	2.3	1.0						
22	RAS402 ENVIRONMENT AND ECOLOGY	2.5	2.0	1.5	1.3	2.0	2.0	2.0	1.3	1.0			1.3
23	REC401 MICROPROCESSOR AND MICROCONTROLLER	2.3	2.0	2.0	3.0	3.0	1.0					1.0	1.0
24	REC402 ELECTROMAGNET FIELD THEORY	2.0	2.4	1.8	1.8	1.8	1.0						
25	REC403 ELECTRONICS MEASUREMENT AND INSTRUMENT	2.0	2.0	2.3	3.0	3.0							
26	RCS406 DATA STRUCTURE AND ALGORITHMS	2.0	2.2	2.0	3.0	3.0	1.0	1.0					1.0
27	REC451 MICROPROCESSOR AND MICROCONTROLLER LAB	1.4	1.8	2.2	1.6	2.2				1.8			
28	REC452 ADVANCE ELECTRONICS LAB	2.2	1.8	2.0	1.2	1.6				1.4			
29	REC453 MEASUREMENT LAB	2.6	1.4	1.0	1.2	1.8				2.0			
30	RCS456 DATA STRUCTURES AND ALGORITHMS LAB	2.4	2.0	2.0	2.0	1.6				2.0			
31	RAS502 INDUSTRIAL SOCIOLOGY	2.3	2.5	2.3	1.8	3.0							
32	REC501A INTEGRATED CIRCUIT	2.0	2.3	2.5	3.0	3.0		2.0		2.0	2.0		1.0
33	REC502 PRINCIPAL OF COMMUNICATION	2.0	2.3	2.8	3.0	3.0		1.0				1.0	1.5
34	REC503DIGITAL SIGNAL PROCESSING	1.8	3.0	2.8	3.0	3.0					1.0		
35	REC052COMPUTER ARCHITECTURE & ORGANIZATION	2.0	2.2	2.6	1.8	1.6	1.0						1.0
36	RAS501 MANAGERIAL ECONOMICS						2.0	1.0	1.5			2.5	1.0
37	REC551 INTEGRATED CIRCUIT LAB	2.2	3.0	2.6	1.2	1.8				2.0			
38	REC552 COMMUNICATION LAB-1	2.6	1.4	2.6	1.8	1.5				2.0			
39	REC553 DIGITAL SIGNAL PROCESSING LAB	1.8	2.0	2.4	2.4	3.0				2.2			
40	REC554 CAD OF ELECTRONICS LAB	2.2	2.2	2.0	2.4	1.6				2.0			
41	RAS601 INDUSTRIAL MANAGENENT	2.0	3.0	2.5		1.0	2.0		2.0	2.0	1.0	3.0	
42	RUC601 CYBER SECURITY	1.0	2.0	2.0	2.4	2.0	2.0				2.0		
43	RIC603 CONTROL SYSTEM-I	2.0	2.4	2.2	3.0	3.0	1.0	1.0					
44	REC601 MICROWAVE ENGINEERING	2.0	2.5	2.0	3.0	3.0							
45	REC602 DIGITAL COMMUNICATION	2.0	2.4	2.4	3.0	3.0		2.0		1.0		1.0	2.0
46	REC062MICROCONTROLLER FOR EMBEDDED SYSTEMS	1.0	2.3	2.0	2.3	1.0	1.7			1.0	1.0	1.0	
47	REC063 ANALOG SIGNAL PROCESSING	2.0	1.8	2.2	2.3	2.0	3.0						

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49	REC652 COMMUNICATION LAB-II	1.6	2.2	1.2	1.8	1.6				2.0			
50	RIC651 MICROCONTROLLER FOR EMBEDDED SYSTEM LAB	1.4	1.8	2.8	2.8	1.6				1.6			
51	RIC653 CONTROL SYSTEM LAB	1.8	2.0	2.0	2.4	1.2				1.8			
52	REC071 INFORMATION THEORY AND CODING	1.4	2.0	2.0	1.6	1.7	1.5						1.0
53	REC075 OPTICAL COMMUNICATION	1.6	2.3	2.2	2.0	1.3	1.3	0.0				1.3	1.5
54	REC701 DATA COMMUNICATION NETWORK	2.8	2.3	2.5		2.3	2.8	2.3		2.3	2.3	1.8	2.3
55	REC702 VLSI DESIGN	1.3	2.3	3.0	2.3	2.0	1.0	2.0		1.5			2.0
56	UNDERSTANDING THE HUMAN BEHAVIOUR				1.0	2.0	1.7	1.7	1.8	1.6	1.5	1.4	1.2
57	REC751 OPTICAL COMMUNICATION LAB	2.6	2.6	2.0	2.4	1.0				2.2			
58	REC752 ELECTRONICS CIRCUIT DESIGN LAB	2.2	2.2	3.0	2.0	2.0				1.6			
59	REC754 PROJECT-1	3.0	3.0	2.8	2.8	3.0	2.5	2.3	2.0	3.0	3.0	2.5	3.0
60	REC753 INDUSTRIAL TRAINING AND VIVA VOICE	3.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0
61	REC083 SATELLITE AND RADAR SYSTEM	2.0	2.4	2.4		2.2	2.6	2.2		2.2	2.2	1.6	2.2
62	REC085 WIRELESS AND MOBILE COMMUNICATION	1.6	1.5	2.0	2.0	1.8	1.5	1.0	0.0	1.0	1.0	1.0	1.5
63	REC086 RENEWABLE ENERGY RESOURCES	1.6	2.4	2.4	1.8	1.8	1.3			1.0	1.0		1.0
64	REC851 GD & SEMINAR	3.0	3.0	3.0	2.0	2.3	2.0	2.0	2.0	3.0	2.3	2.0	3.0
65	REC852 PROJECT	3.0	3.0	2.8	2.8	3.0	2.3	2.3	2.4	3.0	3.0	2.7	3.0

Department of Electronics and Communication Engineering
Course Wise CO'S Attainment of Batch 2017-21

I Semester 2017-18

Course Wise CO S Attainment of Batch 2017-21									
1 Semester 2017-18									
S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	
1	Engineering Maths-I	RAS-103	CO-1	0.92		0.71	0.8	2	
			CO-2		0.83	0.14	0.5	2	
			CO-3		0.71	0.86	0.8	2	
			CO-4			0.00	0.0	2	
			CO-5			0.17	0.2	2	
			AVERAGE INTERNAL						0.5
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						0.4			
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.5			
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.4			
2	Engineering Physics-I	RAS-101	CO-1		1.00	2.00	1.5	3	
			CO-2		1.20	1.27	1.2	3	
			CO-3			0.79	0.8	3	
			CO-4	2.00		1.05	1.5	3	
			CO-5	2.36	1.50	1.59	1.8	3	
			AVERAGE INTERNAL						1.4
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.1			
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.5			
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.3			
3	Engineering Chemistry	RAS-102	CO-1	2.75		2.57	2.7	3	
			CO-2	1.50	2.80	2.17	2.2	3	
			CO-3			1.00	1.0	3	
			CO-4		1.83	1.67	1.8	3	
			CO-5		1.50	1.80	1.7	3	
			AVERAGE INTERNAL						1.8
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.5			
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.7			
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.4			

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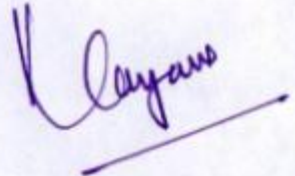
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4	Computer System & Programming in 'C'	RCS-101	CO-1	2.25	2.67	2.29	2.4	3	
			CO-2	2.00		1.80	1.9	3	
			CO-3		0.78	1.13	1.0	3	
			CO-4		0.00	0.75	0.4	3	
			CO-5			0.00	0.0	3	
AVERAGE INTERNAL							1.1	3	
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)							0.9		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)							2.4		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)							2.2		
5	Basic Electrical Engineering	REE-101	CO-1	1.85		1.33	1.6	2	
			CO-2		0.60	0.00	0.3	2	
			CO-3		0.00	1.00	0.5	2	
			CO-4		1.00	0.25	0.6	2	
			CO-5			0.60	0.6	2	
AVERAGE INTERNAL							0.7	2	
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)							0.6		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)							1.6		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)							1.5		
6	Basic Electronics	REC-101	CO-1		0.83	3.00	1.9	3	
			CO-2			2.50	2.5	3	
			CO-3	2.44		3.00	2.7	3	
			CO-4		1.50	3.00	2.3	3	
			CO-5	2.00	1.00	2.70	1.9	3	
AVERAGE INTERNAL							2.3	3	
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)							1.8		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)							2.8		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)							2.5		
7	Professional Communication	RAS-104	CO-1	2.71		2.00	2.4	3	
			CO-2	3.00	2.00	3.00	2.7	3	
			CO-3		1.50	1.20	1.4	3	
			CO-4		1.33	3.00	2.2	3	
			CO-5			1.60	1.6	3	
AVERAGE INTERNAL							2.0	3	
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)							1.6		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)							2.7		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)							2.4		
8	Elements of Mechanical Engineering	RME-101	CO-1	2.25	2.67	2.29	2.4	3	
			CO-2	2.00		1.80	1.9	3	
			CO-3		0.78	1.13	1.0	3	
			CO-4		0.00	0.75	0.4	3	
			CO-5			0.00	0.0	3	
AVERAGE INTERNAL							1.1	3	
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)							0.9		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)							2.4		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)							2.2		
II Semester 2017-18									
S.No.	Subject Name	Subject Code	ST-1	PUT	AV.	EXT.	TA		
		CO-1	1.60	1.29	1.4	2			

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1	ENGINEERING MATHEMATICS-II	RAS-203	CO-3		0.00	0.0	2	
			CO-4	0.17	0.67	0.4	2	
			CO-5		0.67	0.7	2	
			AVERAGE INTERNAL				0.5	2
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				0.4	
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				1.6				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)				1.4				
2	ENGINEERING PHYSICS-II	RAS-201	CO-1		0.93	0.9	3	
			CO-2	2.67	0.60	1.6	3	
			CO-3	1.00	1.20	1.1	3	
			CO-4		0.20	0.2	3	
			CO-5	1.83	1.83	1.8	3	
AVERAGE INTERNAL				1.1	3			
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				0.9				
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.4				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.2				
3	ENGINEERING CHEMISTRY	RCS-202	CO-1	2.33	1.67	2.0	3	
			CO-2		1.50	1.5	3	
			CO-3		2.33	2.3	3	
			CO-4		1.75	1.8	3	
			CO-5	2.80	2.00	2.4	3	
AVERAGE INTERNAL				2.0	3			
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.6				
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.7				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.4				
4	COMPUTER SYSTEM & PROGRAMMING IN C	RCS-201	CO-1	1.50	2.71	2.1	3	
			CO-2	2.20	2.25	2.2	3	
			CO-3	1.50	1.88	1.7	3	
			CO-4		1.80	1.8	3	
			CO-5		2.00	2.0	3	
AVERAGE INTERNAL				2.0	3			
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.6				
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.7				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.4				
5	BASIC ELECTRICAL ENGINEERING	REE-201	CO-1	1.00	1.50	1.3	3	
			CO-2	1.18	0.00	0.6	3	
			CO-3		1.60	1.6	3	
			CO-4		1.00	1.0	3	
			CO-5		0.00	0.0	3	
AVERAGE INTERNAL				0.9	3			
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				0.7				
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.4				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.1				
6	BASIC ELECTRONICS ENGG	REC-201	CO-1	0.50	0.75	0.6	2	
			CO-2		0.25	0.3	2	
			CO-3	2.00	2.33	2.2	2	
			CO-4	2.00	3.00	2.5	2	
			CO-5	3.00	2.33	2.7	2	
AVERAGE INTERNAL				1.7	2			
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.4				
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				5.9				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)				5.3				


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	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.3		
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					1.9		
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)					1.7		
7	PROFESSIONAL COMMUNICATION	RAS-204	CO-1	3.00	2.17	2.6	3	
			CO-2	2.00	1.00	1.5	3	
			CO-3	2.50	2.88	2.7	3	
			CO-4		2.40	2.4	3	
			CO-5		2.40	2.4	3	
AVERAGE INTERNAL						2.3	3	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.9		
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.8		
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.5		
8	ELEMENTS OF MECHANICAL ENGINEERING	RME-201	CO-1	2.33	2.25	2.3	3	
			CO-2		2.25	2.3	3	
			CO-3		2.33	2.3	3	
			CO-4		2.00	2.0	3	
			CO-5	2.80	2.50	2.7	3	
AVERAGE INTERNAL						2.3	3	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.8		
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.8		
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.5		

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Course Wise CO'S Attainment of Batch 2017-21

S.No	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT	
1	DIGITAL LOGIC DESIGN (Ms. Manju Singh)	REC-301	CO-1	1.22		1.50	1.4	2	2.71	
			CO-2	0.00	1.25	0.50	0.6	2	2.43	
			CO-3		0.00	0.00	0.0	2	2.33	
			CO-4			0.00	0.0	2	2.52	
			CO-5			0.00	0.0	2	2.43	
	AVERAGE INTERNAL						0.4	2		2.484
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						0.71		2	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.61			
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.70			
2	DIGITAL LOGIC DESIGN LAB (Ms. MANJU SINGH) Mr. PRAVEER SAXENA)	REC-351	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
	AVERAGE INTERNAL						3	3		
	TOTAL INTERNAL AVERAGE WITH WEIGHT						3.00			
	TOTAL ATTAINMENT						3.0			INDIRECT
3	ELECTRONIC DEVICES & CIRCUITS (Dr. Ashish Gupta)	REC-302	CO-1	1.64		2.00	1.82	2	2.71	
			CO-2			0.00	0.00	2	2.48	
			CO-3			0.00	0.00	2	2.57	
			CO-4		0.67	0.00	0.34	2	2.29	
			CO-5		2.13	2.33	2.23	2	2.38	

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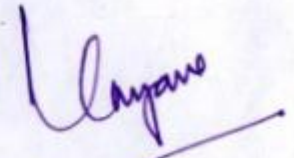
			CO-4		2.67	0.00	1.34	1		2.16
			CO-5		2.88	1.00	1.94	1		2.63
			AVERAGE INTERNAL					1.04	1	2.484
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.43	3	
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					1.13		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)					1.26		
10	PCB & EWSHOP LAB Dr. MONIKA BHATNAGAR Mr. PRABHAKAR SHARMA	REC-354	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
			AVERAGE INTERNAL					3	3	
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT					3.00		
			TOTAL ATTAINMENT					3.0		
S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT	
1	MICROPROCESSOR & MICROCONTROLLER (Ms. Manju Singh)	REC-401	CO-1	1.15		0.00	0.6	2		2.86
			CO-2		0.92	0.60	0.8	2		2.38
			CO-3			0.33	0.3	2		2.24
			CO-4			0.00	0.0	2		2.48
			CO-5			0.00	0.0	2		2.1
			AVERAGE INTERNAL					0.3	2	2.412
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					0.87	3	
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					1.66		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)					1.74		
2	Microprocessors & Microcontrollers Lab Ms. Manju Singh Dr. Rubina Shahin Zuberi	REC-451	CO-1				2	3		
			CO-2				2	3		
			CO-3				2	3		
			CO-4				2	3		
			CO-5				2	3		
			AVERAGE INTERNAL					2.0	3	
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT					2.7		
			TOTAL ATTAINMENT					2.7		INDIRECT
3	ELECTROMAGNETIC FIELD THEORY (Mr. Navneet Kumar)	REC-402	CO-1	1.29		1.50	1.4	0		2.62
			CO-2	1.25	2.33	0.00	1.2	0		2.43
			CO-3		0.80	1.33	1.1	0		2.57
			CO-4			0.75	0.8	0		2.38
			CO-5			1.50	1.5	0		2.38
			AVERAGE INTERNAL					1.2	0	2.476
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.54	3	
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					0.46		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)					0.66		INDIRECT
			CO-1	1.82		2.00	1.9	2		2.62
			CO-2		2.22	0.50	1.4	2		2.33

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4	ELECTRONIC INSTRUMENT & MEASUREMENT (Dr. Ashish Gupta)	REC-403	CO-3		0.50	1.67	1.1	2		2.43
			CO-4			1.00	1.0	2		2.38
			CO-5			1.50	1.5	2		2.19
			AVERAGE INTERNAL					1.4	2	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.70		3		
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					1.91				
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)					1.96				
5	Measurement Lab Dr. Ashish Gupta, Mr. Agha Asim Husain"	REC-453	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
			AVERAGE INTERNAL					3.0	3	
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT					3.0				
	TOTAL ATTAINMENT					3.0				INDIRECT
6	DATA STRUCTURE & ALGORITHMS (Mr. Vijay Shukla)	RCS-406	CO-1	1.09		2.00	1.5	3		2.58
			CO-2		2.11	1.00	1.6	3		2.47
			CO-3		0.00	2.00	1.0	3		2.42
			CO-4			1.75	1.8	3		2.11
			CO-5			2.00	2.0	3		2.32
			AVERAGE INTERNAL					1.6	3	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.46		1		
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.54				
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.52				
7	Data Structures & Algorithms Lab Mr. Vijay Shukla	RCS-456	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
			AVERAGE INTERNAL					3.0	3	
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT					3.0				
	TOTAL ATTAINMENT					3.0				INDIRECT
8	LASER SYSTEM & APPLICATION (Dr. P. K. Shukla)	ROE-043	CO-1	1.27		0.50	0.9	2		2.89
			CO-2		1.22	0.00	0.6	2		2.26
			CO-3		0.50	0.00	0.3	2		2.16
			CO-4			0.00	0.0	2		2.53
			CO-5			0.25	0.3	2		2.42
			AVERAGE INTERNAL					0.4	2	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					0.52		1		
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					1.56				
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)					1.45				INDIRECT

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9	Environment & Ecology Dr. Ruchi Srivastava	RAS-402	CO-1	2.09		2.00	2.0	3		2.74
			CO-2		2.60	1.00	1.8	3		2.26
			CO-3		2.50	1.67	2.1	3		2.16
			CO-4			1.50	1.5	3		2.58
			CO-5			1.75	1.8	3		2.16
			AVERAGE INTERNAL						1.8	3
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.87		2		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.66				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.63				
10	Advanced Electronics Lab Mr. Navneet Chaudhary, Mr. Manish K Rai	EC-452	CO-1				2	3		
			CO-2				2	3		
			CO-3				2	3		
			CO-4				2	3		
			CO-5				2	3		
			AVERAGE INTERNAL						2.0	3
TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT						2.7				
TOTAL ATTAINMENT						2.7				
S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT	
1	INTEGRATED CIRCUITS (Dr. Ashish Gupta)	REC-501	CO-1			0.00	0.0	2		2.79
			CO-2	1.27	0.75	0.75	0.9	2		2.37
			CO-3			0.00	0.0	2		2.53
			CO-4		0.43	0.00	0.2	2		2.21
			CO-5			1.00	1.0	2		2.32
			AVERAGE INTERNAL						0.4	2
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						0.94		3		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.68				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.76				
2	INTEGRATED CIRCUITS LAB Dr. ASHISH GUPTA (AG)	REC-551	CO-1				2	3		
			CO-2				2	3		
			CO-3				2	3		
			CO-4				2	3		
			CO-5				2	3		
			AVERAGE INTERNAL						2	3
TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT						2.70				
TOTAL ATTAINMENT						2.7				
3	PRINCIPLES OF COMMUNICATION (Mr. Agha Asim Husain)	REC-502	CO-1	1.64		0.00	0.8	2		INDIRECT 2.81
			CO-2		1.33	1.33	1.3	2		2.38
			CO-3		0.33	0.75	0.5	2		2.43
			CO-4			0.25	0.3	2		2.33
			CO-5			0.00	0.0	2		2.19
			AVERAGE INTERNAL						0.6	2
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.07		3		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.72				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.79				
4	COMMUNICATION LAB-I Mr. AGHA ASIM HUSAIN	REC-552	CO-1				2	2		
			CO-2				2	2		
			CO-3				2	2		
			CO-4				2	2		


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			CO-5				2	2	
			AVERAGE INTERNAL				2	2	
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT				2.00		
			TOTAL ATTAINMENT				2.0		INDIRECT
5	DIGITAL SIGNAL PROCESSING (Mr. Navneet Kumar)	REC-503	CO-1	1.82		1.50	1.7	2	2.71
			CO-2		0.55	0.50	0.5	2	2.59
			CO-3			0.00	0.0	2	2.71
			CO-4			0.50	0.5	2	2.24
			CO-5			0.25	0.3	2	2.24
			AVERAGE INTERNAL				0.6	2	2.498
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.07		3
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				1.72		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				1.80		
6	DIGITAL SIGNAL PROCESSING LAB Mr. NAVNEET KUMAR	REC-553	CO-1				2	2	
			CO-2				2	2	
			CO-3				2	2	
			CO-4				2	2	
			CO-5				2	2	
			AVERAGE INTERNAL				2	2	
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT				2.00		
			TOTAL ATTAINMENT				2.0		INDIRECT
7	INDUSTRIAL MANAGEMENT (Mr. rakesh Garg)	RAS-501	CO-1	2.77		1.50	2.1	3	2.79
			CO-2	2.67	2.00	1.00	1.9	3	2.37
			CO-3		2.67	1.00	1.8	3	2.58
			CO-4		2.67	1.00	1.8	3	2.47
			CO-5			1.00	1.0	3	2.32
			AVERAGE INTERNAL				1.7	3	2.506
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.59		1
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.58		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.57		INDIRECT
8	INDUSTRIAL SOCIOLOGY (Ms. Konsam)	RAS-502	CO-1	2.09		3.00	2.55	3	2.75
			CO-2		1.50	0.80	1.15	3	2.45
			CO-3		1.71	0.75	1.23	3	2.45
			CO-4			0.67	0.67	3	2.05
			CO-5			0.60	0.60	3	2.4
			AVERAGE INTERNAL				1.2	3	2.42
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.59		3
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.58		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.56		INDIRECT
9	COMPUTER ARCHITECTURE & ORGANIZATION (Dr. Monika Jain)	REC-052	CO-1	2.27		0.50	1.4	3	2.7
			CO-2			0.00	0.0	3	2.55
			CO-3		1.00	1.00	1.0	3	2.4
			CO-4			0.50	0.5	3	2.35
			CO-5		0.00	0.00	0.0	3	2.4
			AVERAGE INTERNAL				0.6	3	2.48
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				0.86		2
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.36		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.37		
			CO-1				3	2	

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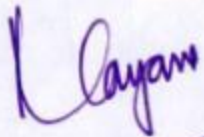
10	LAB-I Mr. NAVNEET KUMAR (NK)	REC-554	CO-3				3	2	
			CO-4				3	2	
			CO-5				3	2	
	AVERAGE INTERNAL						3	2	
	TOTAL INTERNAL AVERAGE WITH WEIGHT						2.30		
	TOTAL ATTAINMENT						2.3		
S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT
1	MICROWAVE ENGINEERING (Mr. Navneet Chaudhary)	REC-601	CO-1	2.17	2.33	2.3	3		2.76
			CO-2		1.67	2.25	2.0	3	2.59
			CO-3	1.00		2.00	1.5	3	2.41
			CO-4		1.00	2.00	1.5	3	2.41
			CO-5		2.33	1.75	2.0	3	2.59
	AVERAGE INTERNAL						1.9	3	2.552
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						2.08		3
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.72		
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.71		
2	Microwave Engineering Lab Mr. Praveer Saxena	EC651	CO-1				3	3	
			CO-2				3	3	
			CO-3				3	3	
			CO-4				3	3	
			CO-5				3	3	
	AVERAGE INTERNAL						3	3	
	TOTAL INTERNAL AVERAGE WITH WEIGHT						3.0		
	TOTAL ATTAINMENT						3.0		INDIRECT
3	DIGITAL COMMUNICATION (Mr. Agha Asim Husain)	REC-602	CO-1	0.91	3.00	2.75	2.2	3	2.84
			CO-2			3.00	3.0	3	2.37
			CO-3		2.60	3.00	2.8	3	2.47
			CO-4			2.40	2.4	3	2.37
			CO-5			1.25	1.3	3	2.05
	AVERAGE INTERNAL						2.3	3	2.42
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						2.47		3
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.84		
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.80		
5	Communication Lab-II Mr. Agha Asim Husain	REC652	CO-1				3	3	
			CO-2				3	3	
			CO-3				3	3	
			CO-4				3	3	
			CO-5				3	3	
	AVERAGE INTERNAL						3	3	
	TOTAL INTERNAL AVERAGE WITH WEIGHT						3.0		
	TOTAL ATTAINMENT						3.0		INDIRECT
6	CONTROL SYSTEM-I (Dr. Ashish Gupta)	RIC-603	CO-1	1.83		2.25	2.0	3	2.8
			CO-2		2.00	2.75	2.4	3	2.15
			CO-3	0.20		2.17	1.2	3	2.55
			CO-4		1.00	2.25	1.6	3	2.5
			CO-5		2.67	2.50	2.6	3	2.25
	AVERAGE INTERNAL						2.0	3	2.45
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						2.17		3
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.75		
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.72		
	Control Systems Lab	Dr. Ashish Gupta (CA)	CO-1				3	3	
			CO-2				3	3	

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7	Common Systems Lab Mr. Praveer Saxena (G2)"	RIC653	CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
	AVERAGE INTERNAL						3	3		
	TOTAL INTERNAL AVERAGE WITH WEIGHT						3.0			
	TOTAL ATTAINMENT						3.0			INDIRECT
8	MANAGERIAL ECONOMICS (Mr. Rakesh Garg)	RAS-601	CO-1	1.38		3.00	2.2	3		2.67
			CO-2	2.33		1.50	1.9	3		2.6
			CO-3		3.00	3.00	3.0	3		2.53
			CO-4		3.00	3.00	3.0	3		2.4
			CO-5		2.00	3.00	2.5	3		2.2
	AVERAGE INTERNAL						2.5	3		2.48
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						2.62		3	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.89			
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.84			INDIRECT
9	CYBER SECURITY (Mr. Sachin Goel)	RUC-601	CO-1	3.00		1.20	2.1	3		2.94
			CO-2		2.25	1.75	2.0	3		2.38
			CO-3			3.00	3.0	3		2.81
			CO-4		1.33	1.20	1.3	3		2.56
			CO-5		0.00	0.67	0.3	3		2.38
	AVERAGE INTERNAL						1.7	3		2.614
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.39		0	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.52			
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.53			INDIRECT
10	MICROCONTROLLER FOR EMBEDDED SYSTEMS (Dr. Monika Jain)	REC-062	CO-1	1.73	0.00	0.00	0.6	3		2.68
			CO-2		3.00	0.67	1.8	3		2.47
			CO-3		1.00	0.00	0.5	3		2.37
			CO-4		3.00	0.00	1.5	3		2.37
			CO-5		3.00	1.25	2.1	3		2.37
	AVERAGE INTERNAL						1.3	3		2.452
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.45		2	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.53			
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.53			INDIRECT
11	Microcontroller for Embeded Systems LabMr. Navneet Kumar	RIC651	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
	AVERAGE INTERNAL						3	3		
	TOTAL INTERNAL AVERAGE WITH WEIGHT						3.0			
	TOTAL ATTAINMENT						3.0			
S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT	
1	DATA COMMUNICATION NETWORKS (Dr. Monika Jain)	REC-701	CO-1	3.00	0.00	1.5	2		2.92	
			CO-2	2.50	3.00	0.00	1.8	2	2.54	
			CO-3		3.00	0.67	1.8	2	2.46	
			CO-4			1.00	1.0	2	2.54	
			CO-5			0.00	0.0	2	2.46	

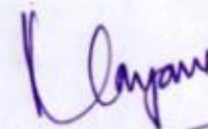

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	AVERAGE INTERNAL						1.2	2.00		2.584
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.59		3	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.88			
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.95			INDIRECT
2	VLSI DESIGN (Mr. Prabhakar Sharma)	REC-702	CO-1	3.00		0.00	1.5	3		2.53
			CO-2		3.00	0.00	1.5	3		2.6
			CO-3		3.00	0.00	1.5	3		2.53
			CO-4			0.00	0.0	3		2.47
			CO-5			0.00	0.0	3		2.27
	AVERAGE INTERNAL						0.9	3.00		2.48
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						0.72		0	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.32			
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.33			
3	Electronics Circuit Design Lab (ECDL) Mr. AGHA ASIM HUSAIN (AAH)	REC752	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
	AVERAGE INTERNAL						3	3.00		
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT						3.00			
	TOTAL ATTAINMENT						3.0			INDIRECT
4	INFORMATION THEORY & CODING (Ms. Manju Singh)	REC-071	CO-1		3.00	0.00	1.5	2		2.69
			CO-2	2.50	1.67	1.00	1.7	2		2.56
			CO-3			0.00	0.0	2		2.38
			CO-4	1.67		0.00	0.8	2		2.25
			CO-5	1.50		0.00	0.8	2		2.44
	AVERAGE INTERNAL						1.0	2.00		2.464
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.17		2	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.75			
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.82			INDIRECT
5	OPTICAL COMMUNICATION (Mr. Agha A Husain)	REC-075	CO-1	3.00		1.50	2.3	3		2.58
			CO-2	2.67	1.50	0.00	1.4	3		2.21
			CO-3		2.67	0.00	1.3	3		2.42
			CO-4			0.00	0.0	3		2.16
			CO-5			0.00	0.0	3		2.47
	AVERAGE INTERNAL						1.0	3		2.368
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.20		2	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.46			
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.45			
6	Optical Communication Lab (OCL)	REC751	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		


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			CO-5				3	3		
			AVERAGE INTERNAL				3	3.00		
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT				3.00			
			TOTAL ATTAINMENT				3.0			INDIRECT
7	UNDERSTANDING THE HUMAN BEHAVIOUR (Mr. Prabhakar Sharma)	ROE-074	CO-1	3.00		1.00	2.0	3		2.63
			CO-2	3.00	3.00	0.25	2.1	3		2.31
			CO-3		2.50	0.25	1.4	3		2.5
			CO-4			0.00	0.0	3		2.19
			CO-5			0.00	0.0	3		2.38
			AVERAGE INTERNAL				1.1	3.00		2.402
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				0.87		0	
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.36			
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.37			
8	INDUSTRIAL TRAINING (DR. GARIMA CHADEL)	REC-753	CO-1				2	no external		
			CO-2				2			
			CO-3				2			
			CO-4				2			
			CO-5				2			
			AVERAGE INTERNAL				2	#DIV/0!		
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT				#DIV/0!			
			TOTAL ATTAINMENT				#DIV/0!			
9	PROJECT (MR. AGHA)	REC-754	CO-1				2	no external		
			CO-2				1			
			CO-3				1			
			CO-4				0			
			AVERAGE INTERNAL				1	#DIV/0!		
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT				#DIV/0!			
			TOTAL ATTAINMENT				#DIV/0!			
S.N	Subject Name	Subject		ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT
1	Satellite & Radar Systems Dr. Garima Chandel	REC083	CO-1	2.80	0.50	2.30	1.9	3		2.71
			CO-2	3.00	0.70	2.30	2.0	3		2.5
			CO-3		0.80	0.70	0.8	3		2.36
			CO-4		1.40	0.80	1.1	3		2.36
			CO-5			0.90	0.9	3		2.21
			AVERAGE INTERNAL				1.32	3		2.428
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.66		3	
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.60			
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.58			
2	Wireless & Mobile Communication Ms. Apurva Thakur	REC085	CO-1	3.00	2.70	2.30	2.7	3		2.71
			CO-2	3.00	2.30	3.00	2.8	3		2.43
			CO-3		2.30	2.90	2.6	3		2.36
			CO-4		2.90	2.90	2.9	3		2.36
			CO-5			2.70	2.7	3		2.43
			AVERAGE INTERNAL				2.73	3		2.458
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				2.78		3	
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.93			
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.89			INDIRECT
			CO-1	2.57	2.63	2.10	2.4	3		2.69

1.25



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3	Dr. Monika Jain	ROE086	CO-3	2.25	2.80	2.5	3	2.38
			CO-4	2.63	2.70	2.7	3	2.38
			CO-5	2.13	2.40	2.3	3	2.06
			AVERAGE INTERNAL			2.52	3	2.39
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)			2.61	3	
			TOTAL CO ATTAINMENT (30 % of Internal + 70 % of External)			2.88		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)			2.83		
4	Dr. Garima Chandel/ Dr. Setu Garg	REC851	CO-1			0		INTERNAL FROM RUBRICS
			CO-2			1		1.88
			CO-3			1		
			CO-4			1		
			AVERAGE INTERNAL			0.75	#DIV/0!	
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT			0.6		
			TOTAL ATTAINMENT			0.6		
5	Project "Mr. Agha Asim Husain/ Mr. Prabhakar Sharma/ Dr. Monika Jain"	REC852	CO-1			3	3	INTERNAL FROM RUBRICS
			CO-2			3	3	
			CO-3			2	3	
			CO-4			2	3	
			CO-5			3	3	
			CO-6			3	3	
			AVERAGE INTERNAL			2.67	3	
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT			2.9		
			TOTAL ATTAINMENT			2.9		

Department of Electronics and Communication Engineering
PO Attainment (Batch-2017-21)

1	SUBJECT CODE/SUBJECT NAME	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
2	RAS103 /RAS203ENGINEERING MATHS-I	1.5	1.5	0.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
3	RAS-101 ENGINEERING PHYSICS-I	2.5	2.5	1.7	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8
4	REE-101/REE201 BASIC ELECTRICAL ENGINEERING	1.0	1.2	1.3	2.0	2.0	1.3	1.3	0.0	0.0	0.0	0.0	1.3
5	RME-101/RME201 ELEMENTS OF MECHANICAL ENGINEERING	1.7	1.9	1.7	1.7	2.0	1.4	1.7	0.0	0.0	0.0	1.7	1.7
6	RAS-104/RAS204 PROFESSIONAL COMMUNICATION	1.8	0.0	0.0	0.0	2.7	0.0	0.0	1.4	2.4	2.7	0.0	2.1
7	RCS-101/RCS201 COMPUTER SYSTEM AND PROGRAMMING IN C	1.7	2.3	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	REC-101/REC201 BASIC ELECTRONICS	2.4	1.6	1.6	1.3	1.6	1.1	1.6	0.0	0.0	0.8	0.8	0.8
9	RAS-102/RAS202 ENGINEERING CHEMISTRY	2.3	2.2	2.5	2.7	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0
10	RAS203ENGINEERING MATHS-II	1.6	1.5	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	RAS201 ENGINEERING PHYSICS-II	2.4	2.2	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	RVE301 UNIVERSAL HUMAN VALUES AND PROFESSIONAL ETHICS	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.4	0.9	0.0	0.0	0.7
13	REE305 NETWORK ANALYSIS AND SYNTHESIS	1.8	2.0	2.1	2.6	2.6	1.3	0.9	0.0	0.0	0.0	0.9	0.9
14	REC301 DIGITAL LOGIC DESIGN	1.1	1.1	1.3	1.7	1.7	0.6	0.6	0.0	0.0	0.0	0.0	0.6
15	REC302 ELECTRONICS DEVICES AND CIRCUIT	1.2	1.4	1.4	1.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.6
16	REC303 SIGNAL AND SYSTEM	1.2	1.3	1.6	1.8	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.9
17	REC351 DIGITAL LOGIC DESIGN LAB	2.2	2.4	2.6	1.8	2.2	0.0	0.0	0.0	2.2	0.0	0.0	0.0
18	REC-352 ELECTRONICS DEVICE AND CIRCUIT LAB	2.4	2.4	2.0	2.0	2.2	0.0	0.0	0.0	2.2	0.0	0.0	0.0
19	REC353 SIGNAL AND SYSTEM LAB	2.2	2.6	2.6	2.4	2.2	0.0	0.0	0.0	2.2	0.0	0.0	0.0
20	REC354 PCB & E/W LAB	1.6	1.6	2.0	1.6	2.2	0.0	0.0	0.0	1.4	0.0	0.0	0.0
21	ROE043 LASER SYSTEM AND APPLICATION	1.4	1.1	1.1	1.4	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
22	RAS402 ENVIRONMENT AND ECOLOGY	2.2	1.8	1.3	1.2	1.8	1.8	1.2	0.9	0.0	0.0	0.0	1.2
23	REC401 MICROPROCESSOR AND MICROCONTROLLER	1.4	1.2	1.2	1.7	1.7	0.6	0.0	0.0	0.0	0.0	0.6	0.6
24	REC402 ELECTROMAGNET FIELD THEORY	0.4	0.5	0.4	0.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
25	REC403 ELECTRONICS MEASUREMENT AND INSTRUMENT	1.3	1.3	1.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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26	RCS406 DATA STRUCTURE AND ALGORITHMS	1.7	1.8	1.7	2.5	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.8
27	REC451 MICROPROCESSOR AND MICROCONTROLLER LAB	1.3	1.6	2.0	1.4	2.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0
28	REC452 ADVANCE ELECTRONICS LAB	2.0	1.6	1.8	1.1	1.4	0.0	0.0	0.0	1.3	0.0	0.0	0.0
29	REC453 MEASUREMENT LAB	2.6	1.4	1.0	1.2	1.8	0.0	0.0	0.0	2.0	0.0	0.0	0.0
30	RCS456 DATA STRUCTURES AND ALGORITHMS LAB	2.4	2.0	2.0	2.0	1.6	0.0	0.0	0.0	2.0	0.0	0.0	0.0
31	RAS502 INDUSTRIAL SOCIOLOGY	2.0	2.1	1.9	1.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	RECS01A INTEGRATED CIRCUIT	1.2	1.4	1.5	1.8	1.8	0.0	1.2	0.0	1.2	1.2	0.0	0.6
33	RECS02 PRINCIPAL OF COMMUNICATION	1.1	1.3	1.6	1.7	1.7	0.0	0.6	0.0	0.0	0.0	0.6	0.9
34	RECS03 DIGITAL SIGNAL PROCESSING	1.1	1.8	1.7	1.8	1.8	0.0	0.0	0.0	0.0	0.6	0.0	0.0
35	REC052 COMPUTER ARCHITECTURE & ORGANIZATION	1.6	1.7	2.1	1.4	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.8
36	RAS501 MANAGERIAL ECONOMICS	0.0	0.0	0.0	0.0	0.0	1.7	0.9	1.3	0.0	0.0	2.1	0.9
37	RECS51 INTEGRATED CIRCUIT LAB	2.0	2.7	2.3	1.1	1.6	0.0	0.0	0.0	1.8	0.0	0.0	0.0
38	RECS52 COMMUNICATION LAB-I	1.7	0.9	1.7	1.2	1.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0
39	RECS53 DIGITAL SIGNAL PROCESSING LAB	1.2	1.3	1.6	1.6	2.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0
40	RECS54 CAD OF ELECTRONICS LAB	1.7	1.7	1.5	1.8	1.2	0.0	0.0	0.0	1.5	0.0	0.0	0.0
41	RAS601 INDUSTRIAL MANAGEMENT	1.9	2.8	2.3	0.0	0.9	1.9	0.0	1.9	1.9	0.9	2.8	0.0
42	RUC601 CYBER SECURITY	0.8	1.7	1.7	2.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
43	RIC603 CONTROL SYSTEM-I	1.8	2.2	2.0	2.7	2.7	0.9	0.9	0.0	0.0	1.7	0.0	0.0
44	REC601 MICROWAVE ENGINEERING	1.8	2.3	1.8	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	REC602 DIGITAL COMMUNICATION	1.9	2.2	2.2	2.8	2.8	0.0	1.9	0.0	0.9	0.0	0.9	1.9
46	REC062 MICROCONTROLLER FOR EMBEDDED SYSTEMS	0.8	1.9	1.7	1.9	0.8	1.4	0.0	0.0	0.8	0.8	0.8	0.0
47	REC063 ANALOG SIGNAL PROCESSING	1.3	1.2	1.5	1.5	1.3	2.0	0.0	0.0	0.0	0.0	0.0	0.0
48	REC651 MICROWAVE ENGINEERING LAB	2.6	1.8	1.2	1.8	1.4	0.0	0.0	0.0	2.0	0.0	0.0	0.0
49	REC652 COMMUNICATION LAB-II	1.6	2.2	1.2	1.8	1.6	0.0	0.0	0.0	2.0	0.0	0.0	0.0
50	RIC651 MICROCONTROLLER FOR EMBEDDED SYSTEM LAB	1.4	1.8	2.8	2.8	1.6	0.0	0.0	0.0	1.6	0.0	0.0	0.0
51	RIC653 CONTROL SYSTEM LAB	1.8	2.0	2.0	2.4	1.2	0.0	0.0	0.0	1.8	0.0	0.0	0.0
52	REC071 INFORMATION THEORY AND CODING	0.8	1.2	1.2	1.0	1.0	0.9	0.0	0.0	0.0	0.0	0.0	0.6
53	REC075 OPTICAL COMMUNICATION	1.3	1.9	1.8	1.7	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.3
54	REC701 DATA COMMUNICATION NETWORK	1.8	1.5	1.6	0.0	1.5	1.8	1.5	0.0	1.5	1.5	1.1	1.5
55	REC702 VLSI DESIGN	1.0	1.7	2.3	1.7	1.5	0.8	1.5	0.0	1.2	0.0	0.0	1.5
56	UNDERSTANDING THE HUMAN BEHAVIOUR	0.0	0.0	0.0	0.8	1.6	1.3	1.3	1.4	1.3	1.2	1.1	1.0
57	REC751 OPTICAL COMMUNICATION LAB	2.6	2.6	2.0	2.4	1.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0
58	REC752 ELECTRONICS CIRCUIT DESIGN LAB	2.2	2.2	3.0	2.0	2.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0
59	REC754 PROJECT-1	1.0	1.0	0.9	0.9	1.0	0.8	0.8	0.7	1.0	1.0	0.8	1.0
60	REC753 INDUSTRIAL TRAINING AND VIVA VOICE	1.3	0.8	1.3	1.3	0.8	1.3	1.3	1.3	1.3	1.3	0.8	1.3
61	REC083 SATELLITE AND RADAR SYSTEM	1.7	2.1	2.1	0.0	1.9	2.2	1.9	0.0	1.9	1.9	1.4	1.9
62	REC085 WIRELESS AND MOBILE COMMUNICATION	1.5	1.4	1.9	1.9	1.7	1.4	1.0	0.0	1.0	1.0	1.0	1.4
63	REC086 RENEWABLE ENERGY RESOURCES	1.5	2.3	2.3	1.7	1.7	1.2	0.0	0.0	0.9	0.9	0.0	0.9
64	REC851 GD & SEMINAR	1.9	1.9	1.9	1.3	1.5	1.3	1.3	1.3	1.9	1.4	1.3	1.9
65	REC852 PROJECT	2.9	2.9	2.7	2.7	2.9	2.3	2.3	2.3	2.9	2.9	2.6	2.9
SUM OF PO ATTAINMENT VALUES		103.33	107.71	102.41	104.89	101.51	38.77	31.76	13.94	55.74	21.73	22.47	35.61
PO ATTAINMENT		1.67	1.77	1.77	1.78	1.75	1.25	1.27	1.39	1.59	1.36	1.25	1.15
PU PO ATTAINMENT		0.77	0.78	0.79	0.77	0.78	0.72	0.74	0.86	0.83	0.72	0.76	0.72
INDIRECT METHOD													
EXIT SURVEY		2.36	2.36	2.28	2.15	2.26	2.28	2.46	2.18	2.33	2.15	2.31	2.18
Alumni Survey		2.12	2.05	2.00	2.15	2.14	2.17	2.12	2.20	2.25	2.10	2.00	2.17
Average - Indirect		2.24	2.21	2.14	2.15	2.20	2.23	2.29	2.19	2.29	2.13	2.16	2.18
PU INDIRECT ATTAINMENT		0.75	0.74	0.71	0.72	0.73	0.74	0.76	0.73	0.76	0.71	0.72	0.73
Overall PO Attainment (80% D + 20% I)		1.78	1.85	1.84	1.85	1.84	1.45	1.47	1.55	1.73	1.51	1.43	1.35
PO ATTAINMENT (%)		82.56	81.43	82.01	79.81	82.03	83.60	85.62	95.67	90.55	79.89	86.51	85.11

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ATTAINMENT LEVEL 0(<60%)	0.00												
ATTAINMENT LEVEL 1 (60%to 70%)	0.00												
ATTAINMENT LEVEL 2 (70% to 80%)	2.00												
ATTAINMENT LEVEL 3 (>80%)	10.00												

Department of Electronics and Communication Engineering
CO-PO Mapping (Batch-2018-22)

S.No	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	PROGRAMMING FOR PROBLEM SOLVING (KCS101/KCS201)	1.2	2.0		1.3	1.8			1.4	1.0			1.4
2	BASIC ELECTRICAL ENGINEERING (KEE-101/201)	2.6	2.5		1.3								1.2
3	MATHEMATICS-I (KAS103)	3.0	2.0										2.0
4	ENGINEERING PHYSICS (KAS101/KAS201)	3.0	2.6	1.6	1.3								1.0
5	WORKSHOP PRACTICE, (KWS 101/KWS201)	2.8	1.4		1.2								1.0
6	ENGINEERING CHEMISTRY (KAS102T/202T)	2.8	2.0	3.0		2.0		2.0					1.6
7	MATHEMATICS-II (KAS203)	3.0	2.0										2.0
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	3.0	2.0		2.0	1.0			3.0	1.0			2.2
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	1.7	1.0										1.0
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	2.0	2.0					3.0					1.0
11	BASIC ELECTRICAL ENGINEERING LAB(KEE-151/251)	2.6	2.0		1.0								2.5
12	ELECTRONIC DEVICES (KEC-301)	2.0	2.3	2.2	3.0	3.0	1.0						1.0
13	DIGITAL SYSTEM DESIGN (KEC-302)	2.3	1.8	2.4	1.4	1.3	3.0	1.0	2.0	2.3	2.0	1.8	1.4
14	NETWORK ANALYSIS AND SYNTHESIS (KEC-303)	2.8	2.6	2.4	2.0	2.8							2.6
15	BASIC DATA STRUCTURES & ALGORITHMS (KOE-035)	2.0	2.2	2.0	3.0	3.0	1.0	1.0					1.0
16	TECHNICAL COMMUNICATION (KAS-301)	1.6	1.4	1.4	1.0	1.2	2.2	1.4	2.0	1.4	3.0	1.2	2.0
17	COMPUTER SYSTEM SECURITY (KNC-301)	1.0		2.0	2.0	2.0	1.0			1.0	1.0	2.0	2.0
18	ELECTRONICS DEVICES LAB (KEC-351)	2.5	2.3	2.5	2.8	3.0	2.0	2.0		2.0	2.5	3.0	2.0
19	DIGITAL SYSTEM DESIGN LAB (KEC-352)	2.0	1.8	2.8	1.0	1.3			1.0	1.0	1.0	1.0	1.8
20	NETWORK ANALYSIS AND SYNTHESIS LAB (KEC-353)	2.5	2.3	2.5	2.8	3.0	2.0	2.0		2.0	2.5	3.0	2.0
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KEC-354)	3.0	2.0	3.0		2.0	2.0			3.0	3.0	2.7	2.8
22	COMMUNICATION ENGINEERING (KEC-401)	2.0	2.3	2.8	3.0	3.0		1.0				1.0	1.5
23	ANALOG CIRCUITS (KEC-402)	2.8	2.0	2.7	1.3	2.3							
24	SIGNALS & SYSTEMS (KEC-403)	3.0	2.8	1.8	1.0	1.3					1.0		1.8
25	MATHEMATICS-IV (KAS-402)	2.4	2.8		2.5								
26	UNIVERSAL HUMAN VALUES (KVE-401)						2.8	2.6	2.4	2.4			3.0
27	PYTHON PROGRAMMING (KNC-402)	3.0		3.0	1.0	2.0							
28	COMMUNICATION ENGINEERING LAB (KEC-451)	2.6	1.4	2.6	1.8	1.5				2.0			
29	ANALOG CIRCUITS LAB(KEC-452)	2.5	2.3	2.5	2.8	3.0	2.0	2.0		2.0	2.5	3.0	2.0
30	SIGNALS & SYSTEMS LAB (KEC-453)	2.2	2.6	2.6	2.4	2.2				2.0		2.0	3.0
31	INTEGRATED CIRCUITS(KEC-501)	2.0	2.3	2.5	3.0	3.0		2.0		2.0	2.0		1.0
32	MPMC(KEC-502)	2.3	2.0	2.0	3.0	3.0	1.0					1.0	1.0
33	DIGITAL SIGNAL PROCESSING(KEC-503)	3.0	3.0	2.8	3.0	3.0					3.0		2.0
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING, KNC501			1.0		1.0	1.8	1.8	2.0	2.0	1.3	1.0	1.0
35	COMPUTER ARCHITECTURE & ORGANIZATION, KEC-051	2.0	2.2	2.6	1.8	1.6	1.0						1.0
36	ELECTRONIC MEASUREMENTS & INSTRUMENTATION, KEC-057	2.0	2.0	2.3	3.0	3.0							
37	INTEGRATED CIRCUITS LAB, KEC-551	2.2	3.0	2.6	1.2	1.8				2.0			
38	MPMC LAB, KEC-552	1.4	1.8	2.2	1.6	2.2				1.8			
39	DIGITAL SIGNAL PROCESSING LAB, KEC-553	2.5	2.3	2.5	2.8	2.0	2.0	2.0		2.0	2.5	3.0	2.0
40	MINI PROJECT, KEC554	3.0	2.0	3.0		2.0	2.0			3.0	3.0	2.7	2.8
41	DIGITAL COMMUNICATION, KEC-601	2.4	2.6	2.5		2.8			2.0		3.0	2.8	
42	CONTROL SYSTEMS, KEC-602	2.0	2.0	2.0		2.0		2.0		2.0	2.0	2.0	

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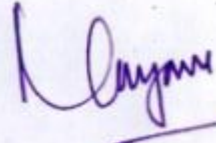
43	ANTENNA AND WAVE PROPAGATION, KEC603	2.6	2.8	2.2	2.4	2.5	1.5		2.2		2.0	2.0	
44	DATA COMMUNICATION NETWORK, KEC-063	2.6	2.3	2.4		2.2	2.8	2.2		2.4	2.2	1.8	2.2
45	INDIAN TRADITION CULTURE & SOCIETY(KNC-602)	1.0	1.0			1.0	1.4	1.8	2.0	1.8	1.8		1.0
46	OBJECT ORIENTED PROGRAMMING(KOE-064)	2.0	2.0	2.8	1.5	1.7							1.4
47	DIGITAL COMMUNICATION LAB(KEC651)	1.8	1.8	2.0	3.0	2.8				2.0	2.0	2.0	3.0
48	CONTROL SYSTEMS LAB(KEC-652)	2.0	3.0	2.0		3.0		1.0	2.0			3.0	3.0
49	CAD FOR ELECTRONICS(KEC653B)	2.6	2.4	2.6	2.0	3.0		1.6	2.0	3.0	2.0	3.0	3.0
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)		1.0				2.0	1.7	3.0	3.0	2.0	3.0	3.0
51	DEPTT. ELECTIVE I-MICROWAVE & RADAR ENGINEERING (KEC-074)	2.4	2.6	2.3	3.0	2.8	2.0		2.0		3.0	2.8	
52	DEPTT. ELECTIVE II-WIRELESS & MOBILE COMMUNICATION (KEC-076)	2.2	2.2	2.5	2.3	2.6	3.0			2.3	2.3	2.4	2.3
53	RENEWABLE ENERGY RESOURCES (KOE-074)	1.6	2.4	2.4	1.8	1.8	1.3			1.0	1.0		1.0
54	MICROWAVE & RADAR ENGINEERING LAB (KEC-753D)	2.4	3.0	2.0	3.0	3.0		1.0	2.0	3.0	1.0	3.0	2.2
55	MINI PROJECT OR INTERNSHIP ASSESSMENT(KEC752)	3.0	2.0	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0
56	PROJECT(KEC-753)	3.0	3.0	2.8	2.8	3.0	2.5	2.3	2.0	3.0	3.0	2.5	3.0
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)	2.3	2.5	2.0	3.0	2.5	1.7	2.5	1.5	2.7		3.0	2.0
58	OPEN ELECTIVEIII: ENTREPRENEURSHIP DEVELOPMENT (KOE-083)	1.6	2.0	2.0	2.0	1.0	1.5	1.4	1.8	2.2	1.6	2.6	2.8
59	OPEN ELECTIVEIV: DIGITAL & SOCIAL MEDIA MARKETING (KOE-094)	2.3	2.8	2.2	1.8	3.0	2.8		2.4	2.5	2.5	2.0	1.8
60	PROJECT II(KEC-851)	3.0	3.0	2.7	2.7	2.7		2.0	2.0	3.0	3.0	2.0	3.0
Average Of PO		2.4	2.2	2.4	2.1	2.3	1.9	1.9	2.1	2.1	2.2	2.3	1.9
No. of Not Related Courses		3	4	13	15	11	33	35	39	26	29	29	11
No. of Related Courses		57	56	47	45	49	27	25	21	34	31	31	49
Total number of Courses		60	60	60	60	60	60	60	60	60	60	60	60

Department of Electronics and Communication Engineering
Course Wise CO'S Attainment of Batch 2018-22

I Semester 2018-19									
S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	
1	Maths-I	KAS-103	CO-1	1.6		2.83	2.2	3	
			CO-2	0	0.5	1	0.5	3	
			CO-3		0.25	1.67	1.0	3	
			CO-4			1.33	1.3	3	
			CO-5			1.17	1.2	3	
	AVERAGE						1.2	3	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.6		3
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.5		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.2			
2	Physics	KAS-101	CO-1	3		2.71	2.9	1	
			CO-2	1.67		1.5	1.6	1	
			CO-3		2.25	0.2	1.2	1	
			CO-4		2.67	3.00	2.8	1	
			CO-5			1	1.0	1	
	AVERAGE						1.9	1	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.9		2
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.3		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.1			
	Chemistry	KAS-107	CO-1	1.64	1.18	2	1.6	3	
			CO-2	1.82	1.55	1	1.5	3	
			CO-3			0.8	0.8	1	

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3			CO-4			0.00	0.0	3	
			CO-5			0.8	0.8	3	
	AVERAGE						0.5	3	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.0		3
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.3		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.0			
4	Programming for problem solving	KCS-101	CO-1	2.25	3	2	2.4	3	
			CO-2	2	2.25	1.33	1.9	3	
			CO-3		2	0.33	1.2	3	
			CO-4			0.60	0.6	3	
			CO-5			0.33	0.3	3	
	AVERAGE						1.3	3	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.4		2
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.5		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.2			
5	Basic Electrical Engineering	KEE-101	CO-1	1.14		3	2.1	2	
			CO-2	0.67		0.33	0.5	2	
			CO-3		1.38	1.4	1.4	2	
			CO-4		0.8	1.33	1.1	2	
			CO-5			0	0.0	2	
	AVERAGE						1.0	2	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.2		2
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.7		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.5			
II Semester 2018-19									
S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	
1	Maths-II	KAS-203	CO-1	1.60		1.5	1.6	2	
			CO-2	0.00	0.50	0.3	0.3	2	
			CO-3		0.25	0.7	0.5	2	
			CO-4			0.5	0.5	2	
			CO-5			0.0	0.0	2	
	AVERAGE						0.6	2	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						0.8		2
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.6			
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.4			
2	Physics	KAS-201	CO-1	1.55	1.18	1.1	1.3	2	
			CO-2	1.64	1.55	0.8	1.3	2	
			CO-3			0.8	0.8	2	
			CO-4			0.7	0.7	2	
			CO-5			0.9	0.9	2	
	AVERAGE						1.0	2	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.4		3
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.7			
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						1.5			
			CO-1	3.00	2.25	2.6	2.6	3	
			CO-2	2.00	2.67	1.5	2.1	3	

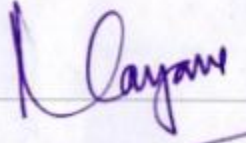

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3	Chemistry	KAS-202	CO-3			0.2	0.2	3		
			CO-4			3.0	3.0	3		
			CO-5			0.8	0.8	3		
		AVERAGE						1.7	3	
		TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						2.0		3
		TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.6		
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.4				
4	Programming for problem solving	KCS-201	CO-1	1.14		3.0	2.1	3		
			CO-2	0.67	1.38	0.3	0.8	3		
			CO-3		0.80	1.4	1.1	3		
			CO-4			1.3	1.3	3		
			CO-5			0.0	0.0	3		
		AVERAGE						1.1	3	
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.2		2		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.4				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.2				
5	Basic Electrical Engineering	KEE-201	CO-1	2.00	0.00	2.0	1.3	1		
			CO-2	1.29	1.88	1.3	1.5	1		
			CO-3		1.80	0.3	1.1	1		
			CO-4			0.4	0.4	1		
			CO-5			0.0	0.0	1		
		AVERAGE						0.9	1	
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.3		3		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						1.0				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						0.9				
6	Professional English	KAS-204	CO-1	2.54	2.33	1.3	2.0	3		
			CO-2		2.20	2.0	2.1	3		
			CO-3			0.2	0.2	3		
			CO-4			0.0	0.0	3		
			CO-5			1.4	1.4	3		
		AVERAGE						1.1	3	
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.3		2		
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.4				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.2				

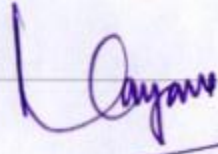
2			CO-4				3	2	
			CO-5				3	2	
			AVERAGE				3	2	
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)				2.30		
			TOTAL ATTAINMENT				2.3		
3	DIGITAL SYSTEM DESIGN (Ms. Manju Singh)	KEC-302	CO-1	1.75		0.00	0.9	1	2.846
			CO-2	0.67	0.17	0.17	0.3	1	2.04
			CO-3		0.50	0.00	0.3	1	2.12
			CO-4			0.20	0.2	1	2.08
			CO-5			0.00	0.0	1	2.231
			AVERAGE				0.33	1	2.2634
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				0.47		1
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				0.84		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				0.98		
4	DIGITAL SYSTEM DESIGN LAB (Ms. Manju Singh)	KEC-352	CO-1				3	3	
			CO-2				3	3	
			CO-3				3	3	
			CO-4				3	3	
			CO-5				3	3	
			AVERAGE				3	3	
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)				3.00		
5	NETWORK ANALYSIS & SYNTHESIS (Dr.Ashish Gupta)	KEC-303	CO-1	2.75		2.67	2.7	0	2.818
			CO-2			0.00	0.0	0	2.45
			CO-3			0.00	0.0	0	2.36
			CO-4	0.00	1.50	0.00	0.5	0	2.41
			CO-5		1.60	0.75	1.2	0	2.227
			AVERAGE				0.88	0	2.453
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.10		2
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				0.33		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				0.54		
6	NETWORK ANALYSIS & SYNTHESIS LAB (Dr.Ashish Gupta)	KEC-353	CO-1				3	3	
			CO-2				3	3	
			CO-3				3	3	
			CO-4				3	3	
			CO-5				3	3	
			AVERAGE				3	3	
			TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)				3.00		
7	BASIC DATA STRUCTURES & ALGORITHMS (Mr.Yogesh Sharma)	KOE-035	CO-1	2.20	2.83	3.00	2.7	3	2.84
			CO-2	1.67	3.00	0.00	1.6	3	2.12
			CO-3		3.00	0.00	1.5	3	2.2
			CO-4	2.50		0.00	1.3	3	2
			CO-5			0.75	0.8	3	2.32
			AVERAGE				1.55	3	2.296
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.24		0
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.47		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)				2.45		

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8	TECHNICAL COMMUNICATION (Mr. Abhishek Rai)	KAS-301	CO-1	1.69	0.14	0.67	0.8	3		2.76
			CO-2		0.17	1.50	0.8	3		2.12
			CO-3			1.00	1.0	3		1.96
			CO-4			0.50	0.5	3		2
			CO-5			0.00	0.0	3		1.84
	AVERAGE						0.63	3		2.136
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						0.51		0	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.25			
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.24				
IV Semester 2019-20										
S.No.	Subject Name	Subject Code		ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT
1	COMMUNICATION ENGINEERING (Ms.Apurwa Thakur)	KEC-401	CO-1	0.27		1.31	0.8	3		2.52
			CO-2		2.50	1.00	1.8	3		2.04
			CO-3		2.00		2.0	3		2.12
			CO-4			3.00	3.0	3		2.12
			CO-5			1.50	1.5	3		2.12
	AVERAGE						1.8	3		2.184
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.65		1	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.59			
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.55				
2	COMMUNICATION ENGINEERING LAB (Ms.Apurwa Thakur)	KEC-451	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
	AVERAGE						3.0	3		
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)						3.0			
	TOTAL ATTAINMENT						3.0			
3	ANALOG CIRCUITS (Dr. Ashish Gupta)	KEC-402	CO-1		1.75	2.80	2.3	3		2.808
			CO-2	0.00	2.57	2.60	1.7	3		2.12
			CO-3			2.75	2.8	3		1.85
			CO-4			2.00	2.0	3		2.19
			CO-5	2.00		2.50	2.3	3		2.115
	AVERAGE						2.2	3		2.2166
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						2.16		2	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.75			
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.69				
4	ANALOG CIRCUITS LAB (Dr. Ashish Gupta)	KEC-452	CO-1				3	3		2.62
			CO-2				3	3		2.33
			CO-3				3	3		2.43
			CO-4				3	3		2.38
			CO-5				3	3		2.19
	AVERAGE						3.0	3		2.39
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)						3.0			
	TOTAL ATTAINMENT						3.0			
	SIGNAL & SYSTEM	KEC-403	CO-1		1.75	2.4	2.1	3		
			CO-2		2.57	2.6	2.6	3		
			CO-3	0.25		2.75	1.5	3		


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5			CO-4			2	2.0	3		
			CO-5	1.86		2.75	2.3	3		
			AVERAGE					2.1	3	
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					2.07		2
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.72		
6	SIGNAL & SYSTEM LAB (Mr. Navneet Kumar)	KEC-453	FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.45		
			CO-1				3	3		2.58
			CO-2				3	3		2.47
			CO-3				3	3		2.42
			CO-4				3	3		2.11
			CO-5				3	3		2.32
			AVERAGE					3.0	3	2.38
7	MATHEMATICS-IV(Dr.Renu Chaudhary)	KAS-402	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)					3.0		
			TOTAL ATTAINMENT					3.0		
			CO-1	0.78		1.5	1.1	3		
			CO-2	2		0	1.0	3		
			CO-3		1.43	1.75	1.6	3		
			CO-4		2	1.75	1.9	3		
			CO-5			0.25	0.3	3		
8	UNIVERSAL HUMAN VALUE (Dr. P. C. Jha)	KVE-401	AVERAGE					1.2	3	
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.34		2
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.50		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.25		
			CO-1	2.64		2.25	2.4	3		2.36
			CO-2			1.00	1.0	3		1.92
			CO-3		2.83	2.00	2.4	3		2
9	INTEGRATED CIRCUITS (Dr. Setu Garg)	KEC-501	CO-4		2.60	2.50	2.6	3		1.96
			CO-5			0.50	0.5	3		1.68
			AVERAGE					1.8	3	1.984
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.83		2
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.65		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.58		
			V Semester 2020-21							
S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT	
1	INTEGRATED CIRCUITS (Dr. Setu Garg)	KEC-501	CO-1		0.50	0.00	0.3	1		2.583
			CO-2	2.89	3.00	1.50	2.5	1		2.13
			CO-3		0.00	0.00	0.0	1		2
			CO-4		0.00	0.80	0.4	1		2.13
			CO-5			1.00	1.0	1		2.375
			AVERAGE					0.8	1	2.2436
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.26		3
2	INTEGRATED CIRCUITS LAB(Dr. Setu Garg)	KEC-551	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					1.08		
			FINAL AVERAGE (90% of Direct and 10 % of Indirect)					1.19		
			CO-1				3	3		
3	INTEGRATED CIRCUITS LAB(Dr. Setu Garg)	KEC-551	CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
			AVERAGE				3	3		

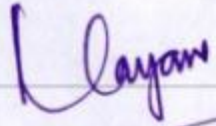

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		AVERAGE					3	3		
		TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)					3.00			
		TOTAL ATTAINMENT					3.0			
3	ELECTRONICS MEASUREMENT & MEASURING INSTRUMENTS (Ms.Apurwa Thakur)	KEC-057	CO-1	2.00		0.00	1.0	3		2.667
			CO-2	2.33	0.50	1.00	1.3	3		2
			CO-3		3.00	0.00	1.5	3		2.13
			CO-4		0.00	0.20	0.1	3		2.08
			CO-5		0.00	0.00	0.0	3		2.37
	AVERAGE					0.8	3		2.2504	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.22		3		
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.47				
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.44				
	4	DIGITAL SIGNAL PROCESSING (Mr. Navneet Kumar)	KEC-503	CO-1				2.0	3	
CO-2							2.0	3		
CO-3							2.0	3		
CO-4							2.0	3		
CO-5							2.0	3		
AVERAGE					2.0	3				
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					2.00		2			
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.70					
FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.43					
5	DIGITAL SIGNAL PROCESSING LAB (Mr. Navneet Kumar)	KEC-553	CO-1				3	3		2.71
			CO-2				3	3		2.59
			CO-3				3	3		2.71
			CO-4				3	3		2.24
			CO-5				3	3		2.24
	AVERAGE					3	3		2.498	
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)					3.00				
TOTAL ATTAINMENT					3.0					
6	COMPUTER ARCHITECTURE & ORGANIZATION (Dr. Garima Chandel)	KEC-051	CO-1	2.50		1.25	2.0	2		
			CO-2	3.00	1.00	0.75	2.0	2		
			CO-3		3.00	0.50	2.0	2		
			CO-4			0.00	2.0	2		
			CO-5			0.75	2.0	2		
	AVERAGE					2.0	2			
TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					2.00		2			
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.00					
FINAL AVERAGE (90% of Direct and 10 % of Indirect)					1.80					
7	MICROPROCESSOR AND MICROCONTROLLER (Dr.Monika Jain)	KEC-502	CO-1	3.00		0.83	1.9	3		2.4
			CO-2	2.50	2.50	1.50	2.2	3		2.08
			CO-3		2.00	1.50	1.8	3		2
			CO-4			0.40	0.4	3		2.24
			CO-5			1.00	1.0	3		2.16
	AVERAGE					1.45	3		2.176	
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.76		3		
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.63				
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.58				

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8	MICROPROCESSOR AND MICROCONTROLLER LAB (Dr.Monika Jain)	KEC-552	CO-2				3	3		2.45
			CO-3				3	3		2.45
			CO-4				3	3		2.05
			CO-5				3	3		2.4
			AVERAGE				3	3		2.42
			TOTAL INTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)				3.00			
9	CONSTITUTION OF INDIA (Mr. Rakesh Garg)	KNC-501	CO-1	3.00		2.25	2.6	3		2.577
			CO-2	3.00	2.00	1.33	2.1	3		2.08
			CO-3		2.67	1.00	1.8	3		1.96
			CO-4		0.00	1.00	0.5	3		2.08
			CO-5			0.00	0.0	3		2.038
			AVERAGE				1.4	3		2.147
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				1.73		3	
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.62			
10	MINI PROJECT or INTERSHIP ASSESSMENT (Mr. Nitesh P)	KEC-554	CO-1				3			
			CO-2				3	NO EXTERNAL		
			CO-3				3			
			CO-4				3			
			CO-5				3			
			AVERAGE				3	#DIV/0!		
			TOTAL INTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)				#DIV/0!			
			TOTAL ATTAINMENT				#DIV/0!			
			VI Semester 2020-21							
S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT	
3	DIGITAL COMMUNICATION (Mr. Manju Singh)	KEC-601	CO-1			1.00	1.00	3		2.4
			CO-2	3.00		2.70	2.85	3		2.04
			CO-3		1.80	1.50	1.65	3		1.92
			CO-4		1.10	1.80	1.45	3		2
			CO-5	2.00	1.15	2.50	1.88	3		1.96
			AVERAGE				1.8	3		2.064
			TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)				2.01		3	
			TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)				2.70			
5	DIGITAL COMMUNICATION LAB (Mr. Manju Singh)	KEC-651	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
			AVERAGE				3	3		
6	Data Communication Networks (Mr. Prabhakar Sharma)	KEC-063	CO-1	2.50		2.60	2.55	3		2.375
			CO-2	2.80	2.57	2.60	2.66	3		2.08
			CO-3		2.23	1.70	1.97	3		2.04
			CO-4		2.47	1.90	2.19	3		1.88
			CO-5			2.10	2.10	3		2.167
			TOTAL ATTAINMENT				3.0			


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	AVERAGE						2.3	3		2.1084
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						2.23		2	
	TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.77			
	FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.70			
7	CAD for Electronics (Mr. Prabhakar Sharma)	KEC653B	CO-1				1	3		
			CO-2				1	3		
			CO-3				1	3		
			CO-4				1	3		
			CO-5				1	3		
	AVERAGE						1	3		
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)						2.4			
TOTAL ATTAINMENT						2.4				
8	Indian Tradition Culture & Society (Mr. Rakesh Garg)	KNC 602	CO-1		1.60		1.6	3		2.92
			CO-2		2.10	35.10	18.6	3		2.04
			CO-3		2.80	73.20	38.0	3		1.88
			CO-4		2.70	83.00	42.9	3		2.24
			CO-5			82.30	82.3	3		2.28
	AVERAGE						36.7	3		2.272
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						29.94		3	
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						11.08				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						10.20				
9	Object Oriented Programming (Dr. Praveen K Rai)	KOE 064	CO-1	3.00	2.60	2.40	2.67	3		2.909
			CO-2	2.00	2.00	2.40	2.13	3		2.45
			CO-3		1.33	2.50	1.92	3		2.36
			CO-4		2.11	2.10	2.11	3		2.68
			CO-5			0.80	0.80	3		2.273
	AVERAGE						1.9	3		2.5344
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						1.94		2	
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.68				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.67				
10	CONTROL SYSTEM (Mr. Agha Asim Husain)	KEC-602	CO-1			2.60	2.60	3		2.783
			CO-2	3.00	2.43	2.60	2.68	3		2.48
			CO-3	2.00	1.64	1.60	1.75	3		2.43
			CO-4	2.00	2.00	1.30	1.77	3		2.43
			CO-5			2.00	2.00	3		2.435
	AVERAGE						2.2	3		2.5116
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)						2.33		3	
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)						2.80				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)						2.77				
11	CONTROL SYSTEM LAB (Mr. Agha Asim Husain)	KEC-652	CO-1				3	3		
			CO-2				3	3		
			CO-3				3	3		
			CO-4				3	3		
			CO-5				3	3		
	AVERAGE						3	3		
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)						3.0			
TOTAL ATTAINMENT						3.0				
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S.No.	Subject Name	Subject Code	ST-1	ST-2	PUT	AV.	EXT.	TA	INDIRECT
1	Project Management and Entrepreneurship (Mr. Manvendra Yadav)	KHU702	CO-1	0.50		1.67	1.1	3	2.76
			CO-2			0.67	0.7	3	2.08
			CO-3		0.75	1.50	1.1	3	2.12
			CO-4		0.60	0.25	0.4	3	2.2
			CO-5			1.25	1.3	3	1.96
	AVERAGE					0.9	3.00		2.224
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					1.33		3	
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.50				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.47				
3	Microwave & Radar Engineering Lab (Mr. Navneet Kumar)	KEC751D	CO-1				3	3	
			CO-2				3	3	
			CO-3				3	3	
			CO-4				3	3	
			CO-5				3	3	
	AVERAGE					3	3.00		
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)					3.00			
TOTAL ATTAINMENT					3.0				
4	Wireless & Mobile Communication (Ms. Manju Singh)	KEC076	CO-1	0.00		0.50	0.3	3	2.522
			CO-2		0.00	0.00	0.0	3	2.04
			CO-3		0.00	0.00	0.0	3	2.35
			CO-4			0.00	0.0	3	2.13
			CO-5			0.00	0.0	3	2
	AVERAGE					0.1	3.00		2.2084
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					0.04		0	
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.11				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.12				
5	Renewable energy resources (Dr.Monika Jain)	KOE-074	CO-1	0.00	0.18	0.33	0.2	3	2.72
			CO-2			0.00	0.0	3	2.2
			CO-3			0.00	0.0	3	1.84
			CO-4			0.80	0.8	3	2.28
			CO-5			1.00	1.0	3	2.16
	AVERAGE					0.4	3		2.24
	TOTAL INTERNAL (80% of ST-1, ST-2, PUT + 20% of TA)					0.92		3	
TOTAL CO ATTAINMENT (30 % of Internal + 70% of External)					2.37				
FINAL AVERAGE (90% of Direct and 10 % of Indirect)					2.36				
6	Mini Project or Internship Assessment (Mr. Prabhakar Sharma)	KEC752	CO-1				1	no external from rubrics	
			CO-2				2		
			CO-3				2		
			CO-4				2		
	AVERAGE					1.75			
	TOTAL INTERNAL EXTERNAL AVERAGE WITH WEIGHT (30 % of Internal + 70% of External)					0.53			
	TOTAL ATTAINMENT					0.5			
7	PROJECT (MR. AGHA)	KEC753	CO-1				3	no external from rubrics	
			CO-2				3		
			CO-3				3		
			CO-4				3		
	AVERAGE					3	#DIV/0!		

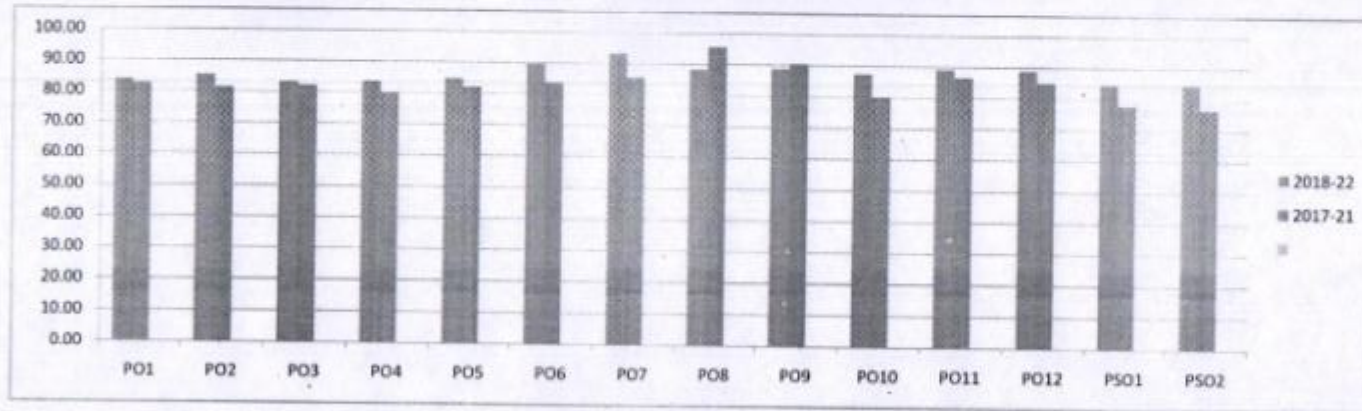
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5	WORKSHOP PRACTICE, (KWS 101/KWS201)	2.1	1.07		0.92							0.77
6	ENGINEERING CHEMISTRY (KAS102T/202T)	2.4	1.73	2.60		1.73		1.73				1.39
7	MATHEMATICS-II (KAS203)	1.7	1.13									1.13
8	PROGRAMMING FOR PROBLEM SOLVING LAB (KCS151/KCS251)	3.0	2.00		2.00	1.00			3.00	1.00		2.20
9	ENGINEERING PHYSICS LAB (KAS151/KAS251)	1.1	0.67									0.67
10	ENGINEERING CHEMISTRY LAB (KAS152P/252P)	2.0	2.00					3.00				1.00
11	BASIC ELECTRICAL ENGINEERING LAB(KEE-151/251)	2.0	1.53		0.77							1.92
12	ELECTRONIC DEVICES (KEC-301)	1.1	1.32	1.25	1.70	1.70	0.57					0.57
13	DIGITAL SYSTEM DESIGN (KEC-302)	0.7	0.59	0.78	0.46	0.44	0.98	0.33	0.65	0.76	0.65	0.59
14	NETWORK ANALYSIS AND SYNTHESIS (KEC-303)	0.5	0.47	0.43	0.36	0.50						0.47
15	BASIC DATA STRUCTURES & ALGORITHMS (KOE-035)	1.6	1.80	1.63	2.45	2.45	0.82	0.82				0.82
16	TECHNICAL COMMUNICATION (KAS-301)	1.2	1.05	1.05	0.75	0.90	1.64	1.05	1.49	1.05	2.24	0.90
17	COMPUTER SYSTEM SECURITY (KNC-301)	0.0		0.00	0.00	0.00	0.00			0.00	0.00	0.00
18	ELECTRONICS DEVICES LAB (KEC-351)	1.9	1.73	1.92	2.11	2.30	1.53	1.53		1.53	1.92	2.30
19	DIGITAL SYSTEM DESIGN LAB (KEC-352)	2.0	1.75	2.75	1.00	1.25			1.00	1.00	1.00	1.00
20	NETWORK ANALYSIS AND SYNTHESIS LAB (KEC-353)	2.5	2.25	2.50	2.75	3.00	2.00	2.00		2.00	2.50	3.00
21	MINI PROJECT OR INTERNSHIP ASSESSMENT (KEC-354)	3.0	2.00	3.00		2.00	2.00			3.00	3.00	2.67
22	COMMUNICATION ENGINEERING (KEC-401)	1.7	1.88	2.30	2.51	2.51		0.84				0.84
23	ANALOG CIRCUITS (KEC-402)	2.5	1.79	2.39	1.12	2.02						
24	SIGNALS & SYSTEMS (KEC-403)	2.5	2.29	1.47	0.82	1.09					0.82	0.00
25	MATHEMATICS-IV (KAS-402)	2.0	2.30	0.00	2.05							
26	UNIVERSAL HUMAN VALUES (KVE-401)						2.41	2.24	2.06	2.06		2.58
27	PYTHON PROGRAMMING (KNC-402)	0.0		0.00	0.00	0.00						
28	COMMUNICATION ENGINEERING LAB (KEC-451)	2.6	1.40	2.60	1.80	1.50				2.00		
29	ANALOG CIRCUITS LAB(KEC-452)	2.5	2.25	2.50	2.75	3.00	2.00	2.00		2.00	2.50	3.00
30	SIGNALS & SYSTEMS LAB (KEC-453)	2.2	2.60	2.60	2.40	2.20				2.00		2.00
31	INTEGRATED CIRCUITS(KEC-501)	0.8	0.93	0.99	1.19	1.19		0.79		0.79	0.79	
32	MPMC(KEC-502)	2.0	1.72	1.72	2.58	2.58	0.86					0.86
33	DIGITAL SIGNAL PROCESSING(KEC-503)	2.4	2.43	2.23	2.43	2.43					2.43	
34	CONSTITUTION OF INDIA, LAW AND ENGINEERING, KNC501			0.86		0.86	1.54	1.50	1.71	1.71	1.14	0.86
35	COMPUTER ARCHITECTURE & ORGANIZATION, KEC-051	1.2	1.36	1.60	1.08	0.99	0.62					0.62
36	ELECTRONIC MEASUREMENTS & INSTRUMENTATION, KEC-057	1.2	1.21	1.36	1.81	1.81						
37	INTEGRATED CIRCUITS LAB, KEC-551	2.2	3.00	2.60	1.20	1.80				2.00		
38	MPMC LAB, KEC-552	1.4	1.80	2.20	1.60	2.20				1.80		
39	DIGITAL SIGNAL PROCESSING LAB, KEC-553	2.5	2.25	2.50	2.75	2.00	2.00	2.00		2.00	2.50	3.00
40	MINI PROJECT, KEC554	3.0	2.00	3.00		2.00	2.00			3.00	3.00	2.67
41	DIGITAL COMMUNICATION, KEC-601	2.1	2.29	2.20		2.42			1.76		2.64	2.46
42	CONTROL SYSTEM, KEC-602	2.8	1.85	2.77		2.31		1.85		1.85	1.85	2.77
43	ANTENNA AND WAVE PROPAGATION, KEC603	2.5	2.65	2.08	2.27	2.37	1.42		2.08		1.89	1.89
44	DATA COMMUNICATION NETWORK, KEC-063	2.3	2.03	2.16		1.98	2.52	1.98		2.16	1.98	1.62
45	INDIAN-TRADITION CULTURE & SOCIETY(KNC-602)	0.9	0.94			0.94	1.31	1.69	1.87	1.69	1.64	
46	OBJECT ORIENTED PROGRAMMING(KOE-064)	1.8	1.78	2.49	1.34	1.48						
47	DIGITAL COMMUNICATION LAB(KEC651)	1.8	1.80	2.00	3.00	2.80				2.00	2.00	2.00
48	CONTROL SYSTEMS LAB(KEC-652)	2.0	3.00	2.00		3.00		1.00	2.00			3.00
49	CAD FOR ELECTRONICS(KEC653B)	2.1	1.92	2.08	1.60	2.40		1.28	1.60	2.40	1.60	2.40
50	PROJECT MANAGEMENT AND ENTREPRENEURSHIP(KHU702)		0.82				1.65	1.37	2.47	2.47	1.65	2.47
51	DEPTT. ELECTIVE I-MICROWAVE & RADAR ENGINEERING (KEC-074)	1.8	2.00	1.80	2.31	2.12	1.54		1.54		2.31	2.16
52	DEPTT. ELECTIVE II-WIRELESS & MOBILE COMMUNICATION (KEC-074)	1.6	1.55	1.77	1.65	1.84	2.12			1.65	1.59	1.70
53	RENEWABLE ENERGY RESOURCES (KOE-074)	1.3	1.89	1.89	1.42	1.42	0.98			0.79	0.79	
54	MICROWAVE & RADAR ENGINEERING LAB (KEC-753D)	2.4	3.00	2.00	3.00	3.00		1.00	2.00	3.00	1.00	3.00

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56	PROJECT(KEC-753)	3.0	3.00	2.75	2.75	3.00	2.50	2.33	2.00	3.00	3.00	2.50	3.00
57	RURAL DEVELOPMENT: ADMINISTRATION & PLANNING (KHU-801)	1.9	2.01	1.61	2.41	2.01	1.34	2.01	1.21	2.14		2.41	1.61
58	OPEN ELECTIVEIII: ENTREPRENEURSHIP DEVELOPMENT (KOE-083)	1.2	1.53	1.53	1.53	0.77	1.15	1.07	1.38	1.69	1.23	1.99	2.15
59	OPEN ELECTIVEIV: DIGITAL & SOCIAL MEDIA MARKETING (KOE-094)	1.7	2.17	1.70	1.35	2.32	2.17		1.86	1.93	1.93	1.55	1.39
60	PROJECT II(KEC-851)	1.9	1.90	1.69	1.69	1.69	0.00	1.27	1.27	1.90	1.90	1.27	1.90
SUM OF PO ATTAINMENT VALUES		104.9	99.55	87.96	73.90	87.99	41.46	38.47	35.92	61.01	55.28	60.06	75.82
PO ATTAINMENT		1.8	1.78	1.87	1.64	1.80	1.54	1.54	1.71	1.79	1.78	1.94	1.55
INDIRECT METHOD													
Program EXIT SURVAY		2.4	2.27	2.42	2.19	2.38	2.31	2.42	2.27	2.31	2.38	2.38	2.38
Alumni Survey		2.5	2.26	2.52	2.55	2.45	2.74	2.55	2.42	2.39	2.43	2.61	2.52
Average - Indirect		2.5	2.26	2.47	2.37	2.42	2.53	2.48	2.34	2.35	2.41	2.50	2.45
Overall PO Attainment (80%D + 20% I)		2.0	1.87	1.99	1.79	1.92	1.73	1.73	1.84	1.91	1.91	2.05	1.73
PO ATTAINMENT (%)		83.8	85.28	83.24	83.54	84.74	89.64	93.39	88.30	88.94	87.46	89.18	88.93
PO ATTAINMENT LEVEL		3	3	3	3	3	3	3	3	3	3	3	3
ATTAINMENT LEVEL 0(<60%)		0											
ATTAINMENT LEVEL 1 (60%to 70%)		0											
ATTAINMENT LEVEL 2 (70% to 80%)		0											
ATTAINMENT LEVEL 3 (>80%)		12											

PO Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
2018-22	83.77	85.28	83.24	83.54	84.74	89.64	93.39	88.30	88.94	87.46	89.18	88.93
2017-21	82.56	81.43	82.01	79.81	82.03	83.60	85.62	95.67	90.55	79.89	86.51	85.11



Udayan

Director
ITS Engineering College
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