(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Annexure-XII

Department of Engineering Mathematics & Computing

Course Outcome (CO's) July- Dec.-2021

Co Attainment & Gap Analysis

	MAC- I Sem. CO Attainment % CO Attainment % CO Attainment													
				CO	CO Attainment % CO Attainment %									
S. No.	Name of Faculty	Course Name & Code	Course Outcomes	I- Mid Term	II- Mid Term	End Sem Exam	Direct	InDirect	Overall	Target	Gap in Attainment %	Status	Action Taken	
			CO-1	63.00		89.06	76.03	89.00	78.63	70.00	-8.63	Attained		
	D. C.A.	MAC-250101	CO-2	56.50		90.91	73.70	84.00	75.76	70.00	-5.76	Attained		
1	Prof. Arun Kumar	Introduction to	CO-3		90.00	90.90	90.45	80.00	88.36	70.00	-18.36	Attained		
	Xumai	Computing	CO-4		90.00	86.09	88.05	86.00	87.64	70.00	-17.64	Attained		
			CO-5		92.50	87.50	90.00	81.00	88.20	70.00	-18.20	Attained		
			CO-1	88.50		76.93	82.71	85.00	83.17	70.00	-13.17	Attained		
	Prof.	MAC 250102	CO-2	90.00		87.58	88.79	87.00	88.43	70.00	-18.43	Attained		
2	Prabhakar	Introduction to Computer Programming	CO-3		81.25	74.16	77.70	89.00	79.96	70.00	-9.96	Attained		
	Sharma		CO-4		76.25	80.51	78.38	88.00	80.30	70.00	-10.30	Attained		
			CO-5		83.75	84.53	84.14	90.00	85.31	70.00	-15.31	Attained		
	Dr. V.P. Shinde	MAC-250107 Probability & Random Process	CO-1	75.50		81.83	78.67	90.00	80.93	70.00	-10.93	Attained		
			CO-2	79.50		82.20	80.85	91.00	82.88	70.00	-12.88	Attained		
3			CO-3		77.50	84.55	81.03	95.00	83.82	70.00	-13.82	Attained		
			CO-4		81.25	82.89	82.07	94.00	84.45	70.00	-14.45	Attained		
			CO-5		78.75	85.03	81.89	93.00	84.11	70.00	-14.11	Attained		
			CO-1	72.50		80.35	76.42	92.75	79.69	70.00	-9.69	Attained		
		MAC-250104	CO-2	73.50		77.10	75.30	88.41	77.92	70.00	-7.92	Attained		
4	Dr. Minakshi	Element of	CO-3		87.50	86.55	87.02	94.20	88.46	70.00	-18.46	Attained		
		Calculus	CO-4		86.25	82.22	84.24	86.96	84.78	70.00	-14.78	Attained		
			CO-5		87.50	83.42	85.46	91.30	86.63	70.00	-16.63	Attained		
			CO-1	79.50		81.77	80.64	89.00	71.01	70.00	-1.01	Attained		
	Prof. Rahul	100015 Energy,	CO-2	84.00		85.11	84.56	84.00	71.01	70.00	-1.01	Attained		
5	Sagwal	Environment,	CO-3		81.25	87.84	84.54	80.00	73.91	70.00	-3.91	Attained		
	~	Ecology & Society	CO-4		81.25	85.00	83.12	86.00	83.70	70.00	-13.70	Attained		
			CO-5		83.75	85.65	84.70	81.00	83.96	70.00	-13.96	Attained		

MAC- III Sen

				CO	Attainmen	ıt %		CO) Attainme	nt %		CO Attainment	
S. No.	Name of Faculty	Course Name & Code	Course Outcomes	I- Mid Term	II- Mid Term	End Sem Exam	Direct	InDirect	Overall	Target	Gap in Attainment	Status	Action Taken
	Dr. Atul K.		CO-1	97.00		90.82	93.91	90.47619	93.22	70.00	-23.22	Attained	
		MAC- 250301	CO-2	96.50		81.65	89.08	90.47619	89.36	70.00	-19.36	Attained	
1	Ray; Dr. V P	Simulation Modelling and	CO-3		97.50	86.81	92.15	95.238095	92.77	70.00	-22.77	Attained	
	Shinde	Analysis	CO-4		96.25	80.93	88.59	90.47619	88.97	70.00	-18.97	Attained	
		1 22242 j 525	CO-5		95.00	83.18	89.09	95.238095	90.32	70.00	-20.32	Attained	
			CO-1	84.00		90.13	87.06	76.811594	85.01	70.00	-15.01	Attained	
		MAC-250302	CO-2	91.00		82.86	86.93	79.710145	85.49	70.00	-15.49	Attained	
2	Prof. D. K. Jain	Discrete Mathematical	CO-3		98.75	86.01	92.38	78.26087	89.56	70.00	-19.56	Attained	
		Structures	CO-4		95.00	84.69	89.84	75.362319	86.95	70.00	-16.95	Attained	
			CO-5		92.50	91.72	92.11	76.811594	89.05	70.00	-19.05	Attained	
	Prof. Mir Shahanawaz Ahmad	MAC-250303 Operating System Concepts	CO-1	49.50		88.94	69.22	79.710145	71.32	70.00	-1.32	Attained	
			CO-2	54.08		81.47	67.77	79.26087	70.07	70.00	-0.07	Attained	
3			CO-3		66.25	84.69	75.47	81.15942	76.61	70.00	-6.61	Attained	
			CO-4		46.25	82.46	64.35	93.15942	70.11	70.00	-0.11	Attained	
			CO-5		76.05	85.89	80.97	79.710145	80.72	70.00	-10.72	Attained	
			CO-1	99.00		90.13	94.56	73.913043	90.43	70.00	-20.43	Attained	
	Prof.	MAC - 250304	CO-2	91.50		83.27	87.39	68.115942	83.53	70.00	-13.53	Attained	
4	Prabhakar	Data Structures	CO-3		91.25	89.04	90.14	68.115942	85.74	70.00	-15.74	Attained	
	Sharma	and Algorithms	CO-4		96.25	84.69	90.47	66.666667	85.71	70.00	-15.71	Attained	
			CO-5		95.00	84.32	89.66	63.768116	84.48	70.00	-14.48	Attained	
			CO-1	89.50		90.43	89.96	89.00	89.77	70.00	-19.77	Attained	
	Dr. J. K.	MAC-250305	CO-2	82.00		84.62	83.31	84.00	83.45	70.00	-13.45	Attained	
5	Muthele	Numerical	CO-3		98.75	90.61	94.68	80.00	91.74	70.00	-21.74	Attained	
	Municie	Techniques	CO-4		93.75	73.93	83.84	86.00	84.27	70.00	-14.27	Attained	
			CO-5		96.25	94.65	95.45	81.00	92.56	70.00	-22.56	Attained	

				I Sem. (Mathema	atics- I &	Linear Al	gebra)					
	CO Attainment % CO Attainment % So Name of Course Name & Course Find Gan in								CO Atta	inment			
S. No.	Name of Faculty	Course Name & Code	Course Outcomes	I- Mid Term	II- Mid Term	End Sem Exam	Direct	InDirect	Overall	Target	Gap in Attainment %	Status	Action Taken
			CO-1	79.00		89.73	84.36	68.52	81.19	70.00	-11.19	Attained	
	D. Divis	CE-100011	CO-2	82.00		87.50	84.75	74.07	82.61	70.00	-12.61	Attained	
1	Dr. Divya		CO-3		75.00	84.99	79.99	67.59	77.51	70.00	-7.51	Attained	
	Chaturvedi	Mathematics-I	CO-4		76.25	84.94	80.59	72.22	78.92	70.00	-8.92	Attained	
			CO-5		81.25	89.74	85.49	69.44	82.28	70.00	-12.28	Attained	
			CO-1	67.84		87.69	80.95	87.18	82.20	70.00	-12.20	Attained	
			CO-2	76.00		86.55	76.19	84.62	77.88	70.00	-7.88	Attained	
2	Dr. Minakshi	AU/ME-100011	CO-3		93.75	81.88	78.57	84.62	79.78	70.00	-9.78	Attained	
	Dahiya	Mathematics-I	CO-4		64.80	87.71	76.19	84.62	77.88	70.00	-7.88	Attained	
			CO-5		79.93	88.49	73.81	82.05	75.46	70.00	-5.46	Attained	
	Dr. ATUL KUMAR RAY	LINEAR ALGEBRA (250100) AIML	CO-1	89.50		86.20	87.85	96.30	89.54	70.00	-19.54	Attained	
			CO-2	92.50		92.46	92.48	85.19	91.02	70.00	-21.02	Attained	
3			CO-3		91.25	87.68	89.46	88.89	89.35	70.00	-19.35	Attained	
			CO-4		91.25	86.49	88.87	86.67	88.43	70.00	-18.43	Attained	
			CO-5		96.25	93.11	94.68	89.63	93.67	70.00	-23.67	Attained	
			CO-1	80.65		87.66	84.15	87.18	84.76	70.00	-14.76	Attained	
	Dr. ATUL	EE-100011	CO-2	85.29		93.51	89.40	96.30	90.78	70.00	-20.78	Attained	
4	KUMAR RAY	Mathematics-I	CO-3		98.75	92.29	95.52	84.62	93.34	70.00	-23.34	Attained	
	KUIVIAN NAT	iviatifettiatics-i	CO-4		96.25	88.47	92.36	82.05	90.30	70.00	-20.30	Attained	
			CO-5		91.25	92.43	91.84	96.30	92.73	70.00	-22.73	Attained	
			CO-1	75.00		91.09	83.05	85.71	83.58	70.00	-13.58	Attained	
_	Dr. Divya	AIR Linear	CO-2	83.00	01.05	85.91	84.46	79.37	83.44	70.00	-13.44	Attained	
5	Chaturvedi	Algebra-250100	CO-3		91.25	90.75	91.00	76.19	88.04 87.99	70.00	-18.04	Attained	
			CO-4 CO-5		96.25 95.00	86.82 87.42	91.54 91.21	73.81 72.22	87.99 87.41	70.00	-17.99 -17.41	Attained Attained	
			CO-3	81.00	93.00	90.55	85.78	81.61	84.94	70.00	-17.41	Attained	
			CO-1	82.50		89.61	86.05	75.86	84.02	70.00	-14.94	Attained	
6	Dr. Divya	CSD- Linear	CO-3	02.50	87.50	86.01	86.76	73.56	84.12	70.00	-14.12	Attained	
-	Chaturvedi	Algebra-250100	CO-4		88.75	78.66	83.71	79.31	82.83	70.00	-12.83	Attained	
			CO-5		93.75	87.32	90.54	77.01	87.83	70.00	-17.83	Attained	

			CO-1	71.04		89.89	80.46	75.27	79.42	70.00	-9.42	Attained	
7	Dr. Minakshi	Linear Algebra	CO-2	82.16		83.78	82.97	79.57	82.29	70.00	-12.29	Attained	
		(EE -loT -	CO-3		82.50	87.23	84.86	80.65	84.02	70.00	-14.02	Attained	
	Dahiya	250100)	CO-4		72.50	85.86	79.18	81.72	79.69	70.00	-9.69	Attained	
		,	CO-5		61.25	88.44	74.84	81.72	76.22	70.00	-6.22	Attained	
			CO-1	86.95		79.66	83.30	82.14	83.07	70.00	-13.07	Attained	
	Dr. Minakshi Dahiya	Linear Algebra	CO-2	79.79		84.74	82.26	80.95	82.00	70.00	-12.00	Attained	
8		(IT -IoT -	CO-3		86.25	90.54	88.39	85.71	87.86	70.00	-17.86	Attained	
		250100)	CO-4		78.36	88.61	83.48	78.57	82.50	70.00	-12.50	Attained	
		,	CO-5		73.75	87.79	80.77	77.38	80.09	70.00	-10.09	Attained	
			CO-1	90.00		88.76	89.38	78.26	87.16	70.00	-17.16	Attained	
	Dr. ATUL	Linoar Algobra	CO-2	96.50		84.56	90.53	75.36	87.50	70.00	-17.50	Attained	
9		Linear Algebra	CO-3		97.50	85.57	91.54	76.81	88.59	70.00	-18.59	Attained	
	KUMAR RAY	(AIDS -250100)	CO-4		98.75	84.69	91.72	76.81	88.74	70.00	-18.74	Attained	
			CO-5		97.50	85.80	91.65	79.71	89.26	70.00	-19.26	Attained	

	Mathematics -II (100001) & Probability & Random Process (250300)													
				CO	Attainme	nt %		CC		CO Atta	inment			
S. No.	Name of Faculty	Course Name & Code	Course Outcomes	I- Mid Term	II- Mid Term	End Sem Exam	Direct	InDirect	Overall	Target	Gap in Attainment %	Status	Action Taken	
			CO-1	76.59		94.20	85.40	55.56	79.43	70.00	-9.43	Attained		
	Dr. J. K.	AU-100001 Mathematics-II	CO-2	77.04		98.75	87.90	62.96	82.91	70.00	-12.91	Attained		
1	Muthele		CO-3		91.25	94.83	93.04	59.26	86.28	70.00	-16.28	Attained		
			CO-4		96.25	94.44	95.35	59.26	88.13	70.00	-18.13	Attained		
			CO-5		95.00	97.26	96.13	66.67	90.24	70.00	-20.24	Attained		
			CO-1	93.95		95.14	94.54	87.18	93.07	70.00	-23.07	Attained		
	Dr. J. K.	EE(IoT)-250300	CO-2	92.00		99.65	95.83	84.62	93.58	70.00	-23.58	Attained	•	
2		Probability &	CO-3		96.25	86.31	91.28	84.62	89.95	70.00	-19.95	Attained		
	Muthele	Random Process	CO-4		91.18	97.29	94.24	84.62	92.31	70.00	-22.31	Attained		
			CO-5		93.75	97.78	95.76	82.05	93.02	70.00	-23.02	Attained		
		MAC-250305	CO-1	95.00		95.16	95.08	96.30	95.32	70.00	-25.32	Attained		
3	Dr. J. K.		CO-2	93.89		95.38	94.64	85.19	92.75	70.00	-22.75	Attained		
3	Muthele	Numerical	CO-3		91.25	96.04	93.65	88.89	92.69	70.00	-22.69	Attained		
		Techniques	CO-4		92.50	94.78	93.64	86.67	92.25	70.00	-22.25	Attained		

			CO-5		95.00	96.81	95.90	89.63	94.65	70.00	-24.65	Attained	
			CO-1	80.65		87.66	84.15	87.18	84.76	70.00	-14.76	Attained	
	Drof A C	ME-100001	CO-2	85.29		93.51	89.40	96.30	90.78	70.00	-20.78	Attained	
4	Prof. A. S. Ojha		CO-3		98.75	92.29	95.52	84.62	93.34	70.00	-23.34	Attained	
		Mathematics-II	CO-4		96.25	88.47	92.36	82.05	90.30	70.00	-20.30	Attained	
			CO-5		91.25	92.43	91.84	96.30	92.73	70.00	-22.73	Attained	
			CO-1	92.00		95.51	93.75	88.89	92.78	70.00	-22.78	Attained	
	Prof. A. S.	EE-100001	CO-2	97.97		96.01	96.99	86.67	94.93	70.00	-24.93	Attained	
5			CO-3		96.25	96.67	96.46	89.63	95.09	70.00	-25.09	Attained	
	Ojha	Mathematics-II	CO-4		100.00	96.03	98.02	84.62	95.34	70.00	-25.34	Attained	
			CO-5		95.00	99.31	97.15	82.05	94.13	70.00	-24.13	Attained	
			CO-1	82.89		89.39	86.14	76.81	84.28	70.00	-14.28	Attained	
	Dr. D. K.	CM-100001	CO-2	89.00		87.12	88.06	79.71	86.39	70.00	-16.39	Attained	
6			CO-3		91.25	84.65	87.95	78.26	86.01	70.00	-16.01	Attained	
	Jain	Mathematics-II	CO-4		96.25	63.75	80.00	75.36	79.07	70.00	-9.07	Attained	
			CO-5		95.00	87.07	91.03	76.81	88.19	70.00	-18.19	Attained	
		ET-100001 Mathematics-II	CO-1	76.59		95.51	86.05	75.36	83.91	70.00	-13.91	Attained	
	Dr. S. K. Bhardwaj		CO-2	77.04		95.38	86.21	76.81	84.33	70.00	-14.33	Attained	
7			CO-3		91.25	96.04	93.65	79.71	90.86	70.00	-20.86	Attained	
		Maniemancs-ii	CO-4		96.25	94.78	95.52	78.26	92.07	70.00	-22.07	Attained	
			CO-5		95.00	98.68	96.84	81.05	93.68	70.00	-23.68	Attained	
		EC-100001 Mathematics-II	CO-1	86.42		88.91	87.66	78.36	85.80	70.00	-15.80	Attained	
	Dr. D. K.		CO-2	89.89		95.38	92.64	75.36	89.18	70.00	-19.18	Attained	
8	Mishra		CO-3		86.25	94.79	90.52	76.81	87.78	70.00	-17.78	Attained	
	IVIISIII a		CO-4		88.36	92.28	90.32	79.71	88.20	70.00	-18.20	Attained	
			CO-5		66.25	92.43	79.34	78.26	79.12	70.00	-9.12	Attained	
			CO-1	76.59		93.98	85.29	78.26	83.88	70.00	-13.88	Attained	
	Prof. R. S.	CSE-100001	CO-2	77.04		95.38	86.21	75.36	84.04	70.00	-14.04	Attained	
9	Tomar	Mathematics-II	CO-3		91.25	96.04	93.65	76.81	90.28	70.00	-20.28	Attained	
	TOITIAI	Mathematics-II	CO-4		96.25	94.16	95.20	76.81	91.53	70.00	-21.53	Attained	
			CO-5		95.00	94.93	94.97	79.71	91.91	70.00	-21.91	Attained	
			CO-1	90.00		92.03	91.02	78.26	88.47	70.00	-18.47	Attained	
	Prof. R. S.	IT-100001	CO-2	88.89		93.61	91.25	75.36	88.07	70.00	-18.07	Attained	
10	Tomar	Mathematics-II	CO-3		91.25	93.84	92.54	76.81	89.40	70.00	-19.40	Attained	
	TOITIAI	iviatifematics-II	CO-4		96.25	94.78	95.52	84.62	93.34	70.00	-23.34	Attained	
			CO-5		95.00	93.68	94.34	82.05	91.88	70.00	-21.88	Attained	
11	Prof. R. S.	CE-100001	CO-1	76.59		96.13	86.36	76.81	84.45	70.00	-14.45	Attained	

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

	Tomar	Mathematics-II	CO-2	77.04		94.97	86.00	84.62	85.73	70.00	-15.73	Attained	
			CO-3		90.00	95.06	92.53	82.05	90.44	70.00	-20.44	Attained	
			CO-4		91.25	95.22	93.24	96.30	93.85	70.00	-23.85	Attained	
			CO-5		85.00	97.47	91.23	84.62	89.91	70.00	-19.91	Attained	
			CO-1	92.97		97.47	95.22	76.81	91.54	70.00	-21.54	Attained	
	Dr. D. K.	AIR-250300	CO-2	76.50		97.47	86.98	79.71	85.53	70.00	-15.53	Attained	
12	Mishra	(Probability &	CO-3		92.50	97.47	94.98	78.26	91.64	70.00	-21.64	Attained	
		Random Process)	CO-4		93.75	97.47	95.61	75.36	91.56	70.00	-21.56	Attained	
		,	CO-5		88.75	97.47	93.11	76.81	89.85	70.00	-19.85	Attained	
			CO-1	89.95		97.47	93.71	84.62	91.89	70.00	-21.89	Attained	
	Dr. D. K.	IT (IoT)-250300	CO-2	73.00		97.47	85.23	82.05	84.60	70.00	-14.60	Attained	
13	Mishra	(Probability &	CO-3		92.50	97.47	94.98	96.30	95.25	70.00	-25.25	Attained	
		Random Process)	CO-4		96.25	97.47	96.86	85.19	94.52	70.00	-24.52	Attained	
		,	CO-5		81.25	97.47	89.36	86.22	88.73	70.00	-18.73	Attained	

Dr. J. K. Muthele (OBE- Coordinator)

Dr. Vikas Shinde (Professor and HoD)