Department of Engineering Mathematics and Computing

CO's Attainments (Jan. – June 2021)

Department of Engineering Mathematics & Computing

Course Outcome (CO's) (Jan. – June- 2021)

Subject & Code/ CO's	CO's	Description of CO's
	CO1	Explain core components of computing and linkage between them,
	CO2	Introduce Summarize role of operating system
Introduction to Computing &	CO3	Discuss the role of computing in real world applications
250101	CO4	Explain Networking aspect of computer engineering and communication,
	CO5	Acquire basic knowledge of database system
	CO1	Determine the solution of function by using one and two variables.
Element of Calculus &	CO2	Interpret the solution of derivatives concepts using different techniques
250102	CO3	Acquire the knowledge of integral calculus
	CO4	Obtain the volume and area of surface by using multiple integrals
	CO5	Evaluate the Gamma and Beta Function
	CO1	Identify situations where computational methods and computers would be useful.
Introduction to Computer Programming	CO2	Describe the basic principles of imperative and structural programming.
&	CO3	Develop a pseudo-code and flowchart for a given problem.
230102	CO4	Analyze the problems and choose suitable programming techniques to develop solutions
	CO5	To design, implement, debug and test programs
	CO1	Determine the Central of tendency, Skewness and Kurtosis.
Statistical Techniques	CO2	Interpret the theory of Probability and its distributions
&	CO3	Acquire the knowledge of correlation and regression analysis
250103	CO4	Analyze the test of hypothesis.
	CO5	Evaluate the attributes, combination and order of class.
	CO1	Describe various energy resources, their conversion to electrical power and role in technological & economic development
Energy, Ecology, Environment & Society	CO2	Update with national/international power status and renewable power development targets & missions.
(EEES) &	CO3	Recognize the impact of pollution on the ecosystem and control policies adopted at national/international levels.
100015	CO4	Illustrate the concepts of ecosystems and their conservation.
	CO5	Solve practical problems of society in a sustainable and ethical manner.

Department of Engineering Mathematics & Computing Course Outcome (CO's) (Jan. – June- 2021)

Subject & Code/ CO's	CO's	Description of CO's
COS	CO1	Apply differential Calculus in basic engineering problems
	CO2	Use integration techniques to determine the solution of various complex
Mathematics- I &	CO3	Solve the differential equations by various methods
100011	CO4	Solve the problem of matrix.
	CO5	Concept of Boolean algebra and graph theory.
	CO1	Apply the Fourier series and Laplace Transform for solving engineering Problems.
Mathematics- II	CO2	Solve Ordinary Differential Equation of Higher Order.
& 100001	CO3	Solve Partial Differential equations application for various engineering problems.
100001	CO4	Solve problems of Vector Calculus.
	CO5	Apply probability theory with distributions for statistically analysis of given data.
		Determine the solution of Matrix
	CO1	
	CO2	Find the analytical solution of algebraic structures'
Linear Algebra &	CO3	Express the vector space
250100	CO4	Acquire the knowledge of Linear transformation
	CO5	Illustrate the concept of Inner product spaces
	CO1	Acquire Knowledge of set theory
Mathematical	CO2	Analyse the concept of Lattices
Foundation	CO3	Identify the concept of Group Theory
& 400111	CO4	Derive the Inferences from Graph theory
680111	CO5	Illustrate the Discrete numeric function and recursive relation
	CO1	Determine the solution of Linear and Non Linear Programming Problems
Computational Technique	CO2	Evaluate the problems related to game theory& dynamic programming.
&	CO3	Acquire the knowledge of Probability theory and Random Variable.
510111	CO4	Analyze the test of hypothesis and Analysis of Variance.
	CO5	Apply transforms for engineering applications.

Department of Engineering Mathematics & Computing Co Attainment & Gap Analysis

Jan. - June- 2021

	llty Code		S CO		CO Attainment %		CO Attainment %						CO Attainment	
Name of Faculty	Course Name & Co	Course Outcomes	I- Mid Term	II- Mid Term	End Sem Exam	Direct	InDirect	Overall	Target	Gap in Attainment %	Registered Students	PASS	Status	Action Taken
а	II-SI	CO-1	61.25		91.38	76.32	84.00	77.85	70.00	-7.85			Attained	
Ojha	CE-100002 Maths-II	CO-2	61.92		90.22	76.07	73.00	75.45	70.00	-5.45			Attained	
A.S.	002 1	CO-3		74.86	77.84	76.35	74.00	75.88	70.00	-5.88			Attained	
Prof.	0001	CO-4		70.83	74.22	72.53	65.00	71.02	70.00	-1.02			Attained	
Δ.	CE-:	CO-5		77.22	86.71	81.97	62.00	77.97	70.00	-7.97			Attained	
g	ths-	CO-1	61.33		91.38	76.36	61.00	73.29	65.00	-8.29			Attained	
Ojha	AU-100002 Maths-	CO-2	60.08		90.22	75.15	59.00	71.92	65.00	-6.92			Attained	
Prof. A.S.	1000	CO-3		59.79	77.84	68.82	57.00	66.45	65.00	-1.45			Attained	
rof.	-100	CO-4		62.92	74.22	68.57	63.00	67.45	65.00	-2.45			Attained	
<u>a</u>	AU	CO-5		64.38	86.71	75.54	60.00	72.43	65.00	-7.43			Attained	
		CO-1	63.03		91.38	77.20	70.00	75.76	70.00	-5.76			Attained	
	≡ -S	CO-2	75.00		90.22	82.61	65.00	79.09	70.00	-9.09			Attained	
Jjha	lath	CO-3		69.10	77.84	73.47	60.00	70.78	70.00	-0.78			Attained	
Prof. A.S. Ojha	ME-100001 Maths-II	CO-4		62.50	74.22	68.36	64.00	67.49	70.00	2.51			Not Attained	Doubt Clearing Session to be arranged in Extra Hours To Organize the Remedial Classes, . Give Assignments
		CO-5		61.18	86.71	73.94	65.00	72.16	70.00	-2.16			Attained	

·:	οX	es	CO Attainment %				С	O Attain	ment %		Result		CO Attainment	
Name of Faculty	Course Name & Code	Course Outcomes	I- Mid Term	II- Mid Term	End Sem Exam	Direct	InDirect	Overall	Target	Gap in Attainment %	Registered Students	PASS	Status	Action Taken
		CO-1	73.06		91.38	82.22	69.00	79.57	65.00	-14.57			Attained	
		CO-2	66.72		90.22	78.47	67.00	76.18	65.00	-11.18			Attained	
Dr. D.K. Jain	CS-100001 Maths-II	CO-3		52.38	77.84	65.11	57.00	63.49	65.00	1.51			Not Attained	Doubt Clearing Session to be arranged in Extra Hours To Organize the Remedial Classes, .Give Assignments
	CS-1	CO-4		65.69	74.22	69.96	66.00	69.17	65.00	-4.17			Attained	
		CO-5		62.70	86.71	74.70	64.00	72.56	65.00	-7.56			Attained	
	IS-II	CO-1	67.06		91.38	79.22	62.00	75.77	60.00	-15.77			Attained	
Jain	Лаth	CO-2	55.31		90.22	72.76	65.00	71.21	60.00	-11.21			Attained	
Dr. D.K. Jain	01 N	CO-3		51.39	77.84	64.62	55.00	62.69	60.00	-2.69			Attained	
Dr.	IT-100001 Maths-II	CO-4		71.94	74.22	73.08	60.00	70.47	60.00	-10.47			Attained	
	IT-1	CO-5		79.86	86.71	83.28	61.00	78.83	60.00	-18.83			Attained	
	.	CO-1	71.00		84.76	77.88	84.76	79.26	60.00	-19.26			Attained	
Dr. D.K. Jain	010 ² us	CO-2	63.59		92.06	77.83	92.06	80.67	60.00	-20.67			Attained	
D.K.	&C 25010 Calculus	CO-3		68.40	75.90	72.15	75.90	72.90	60.00	-12.90			Attained	
<u>0</u> .	M&C 250104 Calculus	CO-4		63.82	70.83	67.32	70.83	68.02	60.00	-8.02			Attained	
	_	CO-5		66.39	83.37	74.88	83.37	76.58	60.00	-16.58			Attained	
국: <u>a</u>	002 3-11	CO-1	72.53		91.38	81.95	76.00	80.76	60.00	-20.76			Attained	
Prof. J.K. Muthele	EE-100002 Maths-II	CO-2	74.00		90.22	82.11	74.00	80.49	60.00	-20.49			Attained	
ΨZ	Ē	CO-3		76.67	77.84	77.26	69.00	75.60	60.00	-15.60			Attained	

		CO-4		71.43	74.22	72.82	68.00	71.86	60.00	-11.86			Attained	
	-	CO-5		75.00	86.71	80.85	61.00	76.88	60.00	-16.88			Attained	
	ne	v	CO	Attainm	ent %		С	O Attain	ment %		Res	ult		CO Attainment
Name of Faculty	Course Name & Code	Course Outcomes	I- Mid Term	II- Mid Term	End Sem Exam	Direct	InDirect	Overall	Target	Gap in Attainment %	Registered Students	PASS	Status	Action Taken
ele	hs-III	CO-1	49.22		91.38	70.30	70.00	70.24	60.00	-10.24			Attained	
luth	Mat	CO-2	54.00		90.22	72.11	71.00	71.89	60.00	-11.89			Attained	
Prof. J.K. Muthele	ET-100002 Maths-II	CO-3		77.93	77.84	77.89	59.00	74.11	60.00	-14.11			Attained	
of. J.	1000	CO-4		83.19	74.22	78.71	59.00	74.77	60.00	-14.77			Attained	
Pro	ET-:	CO-5		71.67	86.71	79.19	64.00	76.15	60.00	-16.15			Attained	
Φ	ths-	CO-1	69.44		91.38	80.41	59.00	76.13	60.00	-16.13			Attained	
pind	EC-100002 Maths-II CM-100002 Maths-	CO-2	68.44		90.22	79.33	60.00	75.46	60.00	-15.46			Attained	
P.S		CO-3		65.63	77.84	71.73	61.00	69.59	60.00	-9.59			Attained	
Dr. V.P.Shinde		CO-4		69.69	74.22	71.96	62.00	69.96	60.00	-9.96			Attained	
	CM	CO-5		71.94	86.71	79.33	61.00	75.66	60.00	-15.66			Attained	
au	II-St	CO-1	73.03		91.38	82.20	64.00	78.56	65.00	-13.56			Attained	
ind	Math	CO-2	74.22		90.22	82.22	69.00	79.58	65.00	-14.58			Attained	
Dr. V.P.Shinde	102 N	CO-3		73.96	77.84	75.90	54.00	71.52	65.00	-6.52			Attained	
	000	CO-4		68.55	74.22	71.39	63.00	69.71	65.00	-4.71			Attained	
Δ	EC-1	CO-5		77.64	86.71	82.17	61.00	77.94	65.00	-12.94			Attained	
(I)		CO-1	74.75		82.66	78.71	71.00	77.17	55.00	-22.17			Attained	
inde	0102 cal lue	CO-2	65.86		92.39	79.12	73.00	77.90	55.00	-22.90			Attained	
P.Sh	1&C-25010 Statistical Technique	CO-3		71.88	74.29	73.08	74.00	73.27	55.00	-18.27			Attained	
Dr. V.P.Shinde	M&C-250102 Statistical Technique	CO-4		65.63	79.87	72.75	65.00	71.20	55.00	-16.20			Attained	
		CO-5		89.17	83.37	86.27	62.00	81.41	55.00	-26.41			Attained	

>		S	СО	Attainm	ent %		С	O Attain	ment %		Res	sult	CO Attainment	
Name of Faculty	Course Name & Code	Course Outcomes	I- Mid Term	II- Mid Term	End Sem Exam	Direct	InDirect	Overall	Target	Gap in Attainment %	Registered Students	PASS	Status	Action Taken
a	Computational nnique	CO-1	61.62		79.12	70.37	71.00	70.50	75.00	4.50			Not Attained	Doubt Clearing Session to be arranged in Extra Hours Remedial Classes,
nind	mbn	CO-2	87.50		91.33	89.41	73.00	86.13	75.00	-11.13			Attained	
P.SI		CO-3		77.08	74.78	75.93	74.00	75.55	75.00	-0.55			Attained	
Dr. V.P.Shinde	ME-M Tech Tec	CO-4		76.04	64.28	70.16	65.00	69.13	75.00	5.87			Not Attained	To Organize the Remedial Classes, .Give Assignments
	2	CO-5		88.89	83.97	86.43	62.00	81.54	75.00	-6.54			Attained	
ıra		CO-1	81.00		78.50	79.75	71.00	78.00	70.00	-8.00			Attained	
Misk)111	CO-2	72.81		93.24	83.02	73.00	81.02	70.00	-11.02			Attained	
Prof. D.K. Mishra	MCA680111	CO-3		76.75	76.86	76.80	74.00	76.24	70.00	-6.24			Attained	
of. [MC	CO-4		77.93	81.84	79.88	65.00	76.91	70.00	-6.91			Attained	
P		CO-5		83.19	84.38	83.79	62.00	79.43	70.00	-9.43			Attained	
		CO-1	63.62		83.26	73.44	71.00	72.95	70.00	-2.95			Attained	
P. Sharma	M&C 250104	CO-2	0.00		94.38	47.19	73.00	52.35	70.00	17.65			Not Attained	Doubt Clearing Session to be arranged in Extra Hours To Organize the Remedial Classes,
Prof. P.	M W	CO-3		79.17	71.62	75.40	74.00	75.12	70.00	-5.12			Attained	
		CO-4		81.25	64.18	72.71	65.00	71.17	70.00	-1.17			Attained	
		CO-5		89.17	74.71	81.94	62.00	77.95	70.00	-7.95			Attained	