Branch: Con Engg. Subject: Mathematics-I

Teacher: Dr. Kirandealo Bale

Semester: Ist

Session: Aug - Dec 2024

S. No.	No. of Lecture s		Chapter/Unit Description	Detail of Contents	Reference Resources	Rema rks
1	18	3rd, 4th, 5th week of August and 1st	5th week of August and 1st week of Week of Trigonometry Trigonometry Trigonometry Trigonometry Trigonometry Trigonometry		Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	
		week of Septemb er		Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
	25		2000년(1915년 전 1915년 - 1915년 - 1915년 - 1915년 - 1916년 -	Definition of functions, concept of limits, four standard limits	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	
		2nd, 3rd, 4th week of		differentiation by definition of sinx, cosx, tanx, logx, exp(x)	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	
2		Septemb	Differential calculus	differentiation of sum, product and quotient of functions, differentiation of function of a function	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	
		2nd week of october	differentiation of trigonometric and inverse trigonometric functions, logarithmic differentiation, exponential differentiation	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
			Applications of derivatives: maxima and minima, equation of tangent and normal to a curve, calculation of small errors and rate measures	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
1	3	3rd, 4th, 5th week of oct. and 2nd, Algebra		Complex numbers: Definition, real and Imaginary part of complex number, conjugate, modulus & amplitude of a complex number, Addition,	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	
3	34		Subtraction, Multiplication and Division of De-movier's theorem and its application Partial fractions (linear factors, repeated and non-repeated linear factors),	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	-	
		ar w	3rd,4th and 5th week of lovemb er		Permutations and combinations, Binomial theorem for positive integral index and any index, first and second binomial approximation with applications	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra

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(Dr Kirandeep Bole)

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Branch:

Subject: Mathematics-I

Semester: Ist

Session: Ay - Dec 2024

1 ea	reacher: Lor. Kirondeep Role			Acres Theory			
S. No.	No. of Lecture s		Chapter/Unit Description	Detail of Contents	Reference Resources	Rema rks	
1	18	3rd, 4th, 5th week of August and 1st	of st Trigonometry of	concepts of angles and measurements of angles in degrees, grades and radians and their conversions	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
		week of Septemb er		T-ratios of allied angles, sum, difference formulae and their applications, product formulae, multiple & submultiple angles, graphs of sinx, cosx, tanx, exp(x)	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
	25		week of Septemb er and Differential calculus lst and 2nd week of october	Definition of functions, concept of limits, four standard limits	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
		3rd, 4th		differentiation by definition of sinx, cosx, tanx, logx, exp(x)	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
2		Septemb		differentiation of sum, product and quotient of functions, differentiation of function of a function	Applied Mathematics-l by B.D.Moudgil & P.C. Chopra		
		The second second		differentiation of trigonometric and inverse trigonometric functions, logarithmic differentiation, exponential differentiation	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
				Applications of derivatives: maxima and minima, equation of tangent and normal to a curve, calculation of small errors and rate measures	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
		3rd, 4th, 5th week of oct. and 2nd, 3rd,4th and 5th week of Novemb er	5th week of oct. and 2nd, 3rd,4th and 5th week of Novemb	Complex numbers: Definition, real and Imaginary part of complex number, conjugate, modulus & amplitude of a complex number, Addition, Subtraction, Multiplication and Division of	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	e l	
3	34			De-movier's theorem and its application Partial fractions (linear factors, repeated and non-repeated linear factors),	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
					Permutations and combinations, Binomial theorem for positive integral index and any index, first and second binomial approximation with applications	Applied Mathematics-I by B.D.Moudgil & P.C Chopra	

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Branch: Civil Engg. Subject: Mathematics-I

Teacher: pr. Kirandeeb Bala

Semester: Ist

Session: Aug - Dec 2024

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S. No.	No. of Lecture s		Chapter/Unit Description	Detail of Contents	Reference Resources	Rema
1	18	3rd, 4th, 5th week of August	Sth week of August and 1st week of week of Trigonometry Trigonometry Concepts of angles and measurements of angles i degrees, grades and radians and their conversion 1-ratios of allied angles, sum, difference formula	concepts of angles and measurements of angles in degrees, grades and radians and their conversions		
i ii		week of Septemb		Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
	25	2nd, 3rd, 4th week of		Definition of functions, concept of limits, four standard limits	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	
			differentiation by definition of sinx, cosx, tanx, logx, exp(x)	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
2		Septemb	eptemb er and Differential calcul	differentiation of sum, product and quotient of functions, differentiation of function of a function	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	
		2nd week of october	2nd week of october differentia trigonome differentia Applicatio equation o	differentiation of trigonometric and inverse trigonometric functions, logarithmic differentiation, exponential differentiation	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	
				Applications of derivatives: maxima and minima, equation of tangent and normal to a curve, calculation of small errors and rate measures	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	1
3	33	3rd, 4th, 5th week of oct. and 2nd, 3rd,4th and 5th week of Novemb	Complex numbers: Definition, real and Imaginary part of complex number, conjugate, modulus & amplitude of a complex number, Addition,	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
			Subtraction, Multiplication and Division of De-movier's theorem and its application Partial fractions (linear factors, repeated and non-repeated linear factors),	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
			and 5th week of Novemb	Permutations and combinations, Binomial theorem for positive integral index and any index, first and second binomial approximation with applications	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	

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Branch: Med Engg. Subject: Mathematics-I

Semester: Ist

Session: Aug. Dec 2024

Teacher: Dr. Kirandeep Bala

S. No.	No. of Lectur		Chapter/Unit Description	Detail of Contents	Reference Resources	Rema	
1	דו	3rd, 4th, 5th week of August and 1st	Trigonometry	concepts of angles and measurements of angles in degrees, grades and radians and their conversions			
		week of Septemb er	temb and their applications, product formulae, multiple				
	24			Definition of functions, concept of limits, four standard limits	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
			2nd, 3rd, 4th week of		differentiation by definition of sinx, cosx, tanx, logx, exp(x)	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	
2		Septemb er and I 1st and	Differential calculu	differentiation of sum, product and quotient of functions, differentiation of function of a function	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
		2nd week of october		differentiation of trigonometric and inverse trigonometric functions, logarithmic differentiation, exponential differentiation	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
				Applications of derivatives: maxima and minima, equation of tangent and normal to a curve, calculation of small errors and rate measures	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
3		3rd, 4th, 5th		Complex numbers: Definition, real and Imaginary part of complex number, conjugate, modulus & amplitude of a complex number, Addition,	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
	34	week of oct. and 2nd, Algebra 3rd,4th		Subtraction, Multiplication and Division of De-movier's theorem and its application Partial fractions (linear factors, repeated and non-repeated linear factors),	Applied Mathematics-I by B.D.Moudgil & P.C. Chopra		
		and 5th week of Novemb er	I		Applied Mathematics-I by B.D.Moudgil & P.C. Chopra	i	

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