

Lesson Plan

Name of the Assistant/ Associate Professor..... Sandhya Kokra.....

Class and Section:..... B.Sc. IIND y..... 'C'.....

Subject:.. Mathematics (Sequences and Series), Programming in C and Numerical Analysis

Week	Date	Topics
1	1-Jan-18	Boundedness of the set of real numbers
	2-Jan-18	Least upper bound, greatest lower bound of a set nbd
	3-Jan-18	Interior points
	4-Jan-18	Isolated points and limit points
	5-Jan-18	Open set and closed set
	6-Jan-18	Interior of a set
	7-Jan-18	Sunday
2	8-Jan-18	Closure of a set in real numbers
	9-Jan-18	Properties of closure of a set in real no.
	10-Jan-18	Bolzano - Weierstrass theorem
	11-Jan-18	Open Covers
	12-Jan-18	Compact sets
	13-Jan-18	Heine - Borel theorem
	14-Jan-18	Sunday
3	15-Jan-18	Test
	16-Jan-18	Real Sequences
	17-Jan-18	Convergence of Real sequences
	18-Jan-18	Theorems on limit of sequence
	19-Jan-18	Bounded and Monotonic sequence
	20-Jan-18	Cauchy's sequences
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Cauchy general principle of convergence
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Subsequences
	26-Jan-18	Republic Day
	27-Jan-18	Subsequential limits
	28-Jan-18	Sunday
	5	29-Jan-18
30-Jan-18		Convergence of infinite series
31-Jan-18		Divergence of infinite series

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Week	Date	Topics
1	1-Feb-18	Comparison tests of positive terms infinite series
	2-Feb-18	Cauchy's general principle of convergence of series
	3-Feb-18	Convergence of geometric series
	4-Feb-18	Sunday
2	5-Feb-18	Divergence of geometric series
	6-Feb-18	Hyper harmonic series or p-series
	7-Feb-18	Test (Infinite Series)
	8-Feb-18	D'Alembert's Ratio Test
	9-Feb-18	Rabbe's Test
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
3	12-Feb-18	Logarithmic Test
	13-Feb-18	Maha Shivratri
	14-Feb-18	De Morgan Test
	15-Feb-18	Bertrand's Test
	16-Feb-18	Cauchy's nth root Test
	17-Feb-18	Gauss Test
	18-Feb-18	Sunday
4	19-Feb-18	Cauchy's Integral Test
	20-Feb-18	Cauchy's Condensation Test
	21-Feb-18	Test (All Infinite series Tests)
	22-Feb-18	Leibnitz's Test
	23-Feb-18	Absolute convergent Arbitrary series
	24-Feb-18	Conditional convergence Arbitrary series
	25-Feb-18	Sunday
5	26-Feb-18	Abel's lemma.
	27-Feb-18	Abel's test
	28-Feb-18	Dirichlet's Test

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Week	Date	Topics
1	1-Mar-18	Guru Ravidas Birthday
	2-Mar-18	Holi
	3-Mar-18	Insertion of parenthesis
	4-Mar-18	Sunday
2	5-Mar-18	Removal of parenthesis
	6-Mar-18	Re-arrangement of terms in a series
	7-Mar-18	Dirichlet's theorem
	8-Mar-18	Riemann's Re-arrangement theorem
	9-Mar-18	Pringsheim's theorem (Statement only)
	10-Mar-18	Multiplication of series
	11-Mar-18	Sunday
3	12-Mar-18	Cauchy product of series (definition & example)
	13-Mar-18	Convergence of infinite series
	14-Mar-18	Divergence of Infinite series
	15-Mar-18	Test (Alternating series)
	16-Mar-18	Bisection Method
	17-Mar-18	Regula falsi Method
	18-Mar-18	Sunday
	4	19-Mar-18
20-Mar-18		Newton Raphson's Method
21-Mar-18		Newton's iterative method for finding p-th root
22-Mar-18		Order of convergence of above method
23-Mar-18		Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
24-Mar-18		Test (Sol ⁿ of algebraic and Transcendental eq ⁿ)
25-Mar-18		Sunday/ Ram Navami
5		26-Mar-18
	27-Mar-18	Gauss Jordan method
	28-Mar-18	Triangularization Method
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Lower decomposition method
	31-Mar-18	Upper decomposition method

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Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	Test (Gauss elimination, Gauss Jordan, LU method)
	3-Apr-18	Crout's method
	4-Apr-18	Cholesky method
	5-Apr-18	Iterative method
	6-Apr-18	Test (Crout's, Cholesky, Iterative method)
	7-Apr-18	Jacobi's method
	8-Apr-18	Sunday
2	9-Apr-18	Gauss - Seidal's method
	10-Apr-18	Test (Jacobi's, Gauss seidal's method)
	11-Apr-18	Relaxation method
	12-Apr-18	Test (Relaxation method)
	13-Apr-18	Seminar
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
3	16-Apr-18	Seminar
	17-Apr-18	Seminar
	18-Apr-18	Parashurama Jayanti
	19-Apr-18	Revised full syllabus
	20-Apr-18	"
	21-Apr-18	Assignment
	22-Apr-18	Sunday
4	23-Apr-18	Discussion on previous year papers (Seq ⁿ and Series)
	24-Apr-18	"
	25-Apr-18	Discussion on previous year papers (Numerical Analysis)
	26-Apr-18	"
	27-Apr-18	Full Test of Seq ⁿ and series)
	28-Apr-18	Full Test of Numerical Analysis