

## Lesson Plan

Name of the Assistant/ Associate Professor... MISS DIMPLE.....

Class and Section: B.Sc. II (Sem - IV).....

Subject: Mathematics (Sequence and Series and Numerical Methods)

Week	Date	Topics
1	1-Jan-18	Boundedness of a set of real number, g.l.b, l.u
	2-Jan-18	Discuss some Problems, theorem of this topic
	3-Jan-18	Interior Points, isolated points and limit points
	4-Jan-18	Open set and Closed set
	5-Jan-18	Holiday
	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	Balzano - Weierstrass theorem
	11-Jan-18	Open Covers, Compact sets, Heine Borel theorem
	12-Jan-18	Real sequences
	13-Jan-18	Convergence of Real sequences
	14-Jan-18	Sunday
3	15-Jan-18	Class Test (Set)
	16-Jan-18	Theorems on limit of Sequence
	17-Jan-18	Bounded and Monotonic sequence
	18-Jan-18	Cauchy's Sequence with Examples
	19-Jan-18	Some Problems of Cauchy Sequence, Bdd sequence
	20-Jan-18	Cauchy general Principle of Convergence
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Test (Sequences)
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	Subsequences, Subsequential limits
	26-Jan-18	Republic Day
	27-Jan-18	Difference between Sequence and Series, Infinite Series
	28-Jan-18	Sunday
	29-Jan-18	Convergence of Infinite Series
5	30-Jan-18	Divergence of Infinite Series
	31-Jan-18	HOLIDAY



## Lesson Plan

Name of the Assistant/ Associate Professor... MISS DIMPLE

Class and Section: B.Sc. II (Sem IV) Method)

Subject: Mathematics (Sequence and Series, Numerical Analysis)

Week	Date	Topics
1	1-Feb-18	Comparison tests of Positive terms infinite series
	2-Feb-18	Cauchy's general Principal 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	Higher Harmonic Series or p-Series
	7-Feb-18	Test (Infinite series)
	8-Feb-18	D'Alembert's Ratio test
	9-Feb-18	Rabbel'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	Bertsand's test
	16-Feb-18	Cauchy's nth root test, Gauss test
	17-Feb-18	Cauchy's Integral test
	18-Feb-18	Sunday
	4	19-Feb-18
20-Feb-18		Test (All infinite series Test)
21-Feb-18		Leibnitz's test
22-Feb-18		Absolute Convergent, Arbitrary series
23-Feb-18		Conditional Convergent Arbitrary series
24-Feb-18		Abel's Lemma, Abel's test
25-Feb-18		Sunday
5		26-Feb-18
	27-Feb-18	Dirichlet's test
	28-Feb-18	Holiday



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Class and Section: B.Sc II (Sem IV).....

Subject: Mathematics (Sequence and Series And Numerical Analysis) Method

Week	Date	Topics
1	1-Mar-18	Guru Ravidas Birthday
	2-Mar-18	Holi
	3-Mar-18	Holiday
	4-Mar-18	Sunday
2	5-Mar-18	Insertion of parenthesis, 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 and Examples)
	13-Mar-18	Convergence of Alternating series
	14-Mar-18	Divergence of Alternating series
	15-Mar-18	Test (Alternating Series)
	16-Mar-18	Bisection Method, Regula falsi Method
	17-Mar-18	Secant Method, Newton Raphson's Method
	18-Mar-18	Sunday
4	19-Mar-18	Newton's R Iterative Method for finding P-th root
	20-Mar-18	order of Convergence of above Method
	21-Mar-18	Test (Sol <sup>n</sup> of algebraic and transcendental eqns)
	22-Mar-18	Gauss Elimination Method
	23-Mar-18	Shaheedi Diwas of Bhagat Singh, Rajguru & Sukhdev
	24-Mar-18	Gauss Jordan Method, Triangularization Method
	25-Mar-18	Sunday/ Ram Navami
5	26-Mar-18	Lower decomposition Method, Upper decomposition Method
	27-Mar-18	Crowt's Method, Cholesky Method
	28-Mar-18	Iteration Method
	29-Mar-18	Mahavir Jayanti
	30-Mar-18	Test (Crowt's Method, Cholesky, Iterative Method)
	31-Mar-18	Jacob's Method



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Class and Section: B.Sc. II. (Sem IV).....

Subject: Mathematics (Sequence and series, Numerical <sup>Method</sup> Analysis)

Week	Date	Topics
1	1-Apr-18	Sunday
	2-Apr-18	Gauss-Seidal's Method, Relation Method
	3-Apr-18	Strings: Character Data type & standard handling
	4-Apr-18	Arithmetic operations on characters
	5-Apr-18	Definition of structures, use of structures in Arrays
	6-Apr-18	Pointers Data type, Pointers and Arrays
	7-Apr-18	Pointers and functions
	8-Apr-18	Sunday
2	9-Apr-18	Test (Jacobi's Gauss seidal's Method)
	10-Apr-18	Discuss some Problems of Pointers and Arrays
	11-Apr-18	Test (Relation Method)
	12-Apr-18	Seminar
	13-Apr-18	- do -
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi
	15-Apr-18	Sunday
	3	16-Apr-18
17-Apr-18		- do -
18-Apr-18		Parashurama Jayanti
19-Apr-18		Revised full Syllabus
20-Apr-18		- do -
21-Apr-18		Assignment
22-Apr-18		Sunday
4		23-Apr-18
	24-Apr-18	- do -
	25-Apr-18	Discussion on Previous year Papers (Numerical Analysis)
	26-Apr-18	- do -
	27-Apr-18	full Test of Sequence and series
	28-Apr-18	full test of Numerical Analysis