

Lesson Plan

Name of the Assistant/ Associate Professor..... Sunita Kalia

Class and Section:..... B.A.I

Subject:..... Vector Calculus (Mathematics)

Week	Date	Topics
1	1-Jan-18	Vacation
	2-Jan-18	"
	3-Jan-18	"
	4-Jan-18	"
	5-Jan-18	"
	6-Jan-18	"
	7-Jan-18	Sunday
2	8-Jan-18	Scalar and Vector Product of three vectors
	9-Jan-18	" " " " "
	10-Jan-18	Product of four vectors
	11-Jan-18	" " " "
	12-Jan-18	Reciprocal vectors
	13-Jan-18	" " "
	14-Jan-18	Sunday
3	15-Jan-18	Vector differentiation
	16-Jan-18	" "
	17-Jan-18	Scalar valued point functions
	18-Jan-18	" " " "
	19-Jan-18	Vector valued point functions
	20-Jan-18	" " " " "
	21-Jan-18	Sunday
4	22-Jan-18	Vasant Panchami
	23-Jan-18	Derivative along a curve
	24-Jan-18	Sir Chhotu Ram Jayanti
	25-Jan-18	derivative along a curve
	26-Jan-18	Republic Day
	27-Jan-18	derivative along a curve
	28-Jan-18	Sunday
5	29-Jan-18	Directional derivatives
	30-Jan-18	" " "
	31-Jan-18	" " "

Lesson Plan

Name of the Assistant/ Associate Professor... SUNITA KACRA

Class and Section:..... BA I

Subject:..... Vector Calculus

Week	Date	Topics
	1-Feb-18	Gradient of a scalar point function
	2-Feb-18	" " " "
	3-Feb-18	Geometrical interpretation of grad ϕ
	4-Feb-18	Sunday
6	5-Feb-18	Geometrical interpretation of grad ϕ
	6-Feb-18	character of gradient as a point function
	7-Feb-18	" " " " "
	8-Feb-18	Divergence of a vector point function
	9-Feb-18	" " " "
	10-Feb-18	Maharshi Dayanand Saraswati Jayanti
	11-Feb-18	Sunday
7	12-Feb-18	Curl of a vector point function
	13-Feb-18	Maha Shivratri
	14-Feb-18	curl of a vector point function
	15-Feb-18	character of $\text{div} \vec{F}$ as a point function
	16-Feb-18	" " " "
	17-Feb-18	character of $\text{curl} \vec{F}$ as point function
	18-Feb-18	Sunday
	8	19-Feb-18
20-Feb-18		" " " "
21-Feb-18		divergence of sum and product and their related identities
22-Feb-18		" " " " "
23-Feb-18		Curl of sum and product of related identities
24-Feb-18		" " " "
25-Feb-18		Sunday
9		26-Feb-18
	27-Feb-18	" "
	28-Feb-18	" " "

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Name of the Assistant/ Associate Professor.....SUNITA KACRA

Class and Section:.....BA I

Subject:.....Vector Calculus

Week	Date	Topics
		Guru Ravidas Birthday
	1-Mar-18	
	2-Mar-18	Holi
	3-Mar-18	Orthogonal curvilinear coordinates
	4-Mar-18	Sunday
10	5-Mar-18	Conditions for orthogonality
	6-Mar-18	" " "
	7-Mar-18	Fundamental triad of mutually orthogonal vectors
	8-Mar-18	" " " "
	9-Mar-18	Gradient in terms of orthogonal curvilinear coordinates
	10-Mar-18	" " " " "
	11-Mar-18	Sunday
11	12-Mar-18	Divergence in terms of orthogonal curvilinear
	13-Mar-18	" " " " "
	14-Mar-18	Curl in terms of orthogonal curvilinear coordinates
	15-Mar-18	" " " " "
	16-Mar-18	Laplacian operators in terms of above coordinates
	17-Mar-18	" " " " "
	18-Mar-18	Sunday
12	19-Mar-18	Gradient in terms of cylindrical coordinates
	20-Mar-18	" " " " "
	21-Mar-18	Divergence in terms of cylindrical coordinates
	22-Mar-18	" " " " "
	23-Mar-18	Curl in terms of cylindrical coordinates
	24-Mar-18	" " " " "
	25-Mar-18	Sunday/ Ram Navami
13	26-Mar-18	Gradient in terms of spherical coordinates
	27-Mar-18	" " " " "
	28-Mar-18	Divergence in terms of spherical coordinates
	29-Mar-18	Mahavir Jayanti " " " " "
	30-Mar-18	Curl in terms of spherical coordinates
	31-Mar-18	" " " " "

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Name of the Assistant/ Associate Professor.....SUNITA KACRA

Class and Section:.....BAF

Subject:.....Vector Calculus

Week	Date	Topics	
14		Sunday	
	1-Apr-18		
	2-Apr-18	Vector integration	
	3-Apr-18	" "	
	4-Apr-18	" " "	
	5-Apr-18	Line integral	
	6-Apr-18	" "	
	7-Apr-18	" "	
	8-Apr-18	Sunday	
15	9-Apr-18	Surface integral	
	10-Apr-18	" " "	
	11-Apr-18	Volume integral	
	12-Apr-18	" "	
	13-Apr-18	Gauss Theorem	
	14-Apr-18	Dr Ambedkar Jayanti / Vaisakhi	
	15-Apr-18	Sunday	
	16-Apr-18	Gauss Theorem	
16	17-Apr-18	" "	
	18-Apr-18	Parashurama Jayanti	
	19-Apr-18	Green Theorem	
	20-Apr-18	Stokes Theorem	
	21-Apr-18	Test on Gauss Theorem	
	22-Apr-18	Sunday	
	17	23-Apr-18	Stokes Theorem (Assignment)
		24-Apr-18	Revision of line integral
25-Apr-18		Revision of Chapter 4 (multiple of vector)	
26-Apr-18		Problem on Differentiation of vector (Revision)	
27-Apr-18		Revision on Vector integration	
28-Apr-18		Revision on curvilinear coordinates	