

SUMMARY OF LESSON PLAN

Name of the Assistant/ Associate Professor : **Deepak**
Class and Section : **B.sc-III**
Subject Lesson Plan : **maths real and dynamic**
Month : **January 2018**

Date	Topics
01-01-2018	Jacobean
02-01-2018	Functional dependence (or Non-Independence)
03-01-2018	Beta function, properties of beta function
04-01-2018	Dynamics: Some basic concepts & definitions
05-01-2018	GURU GOVIND SINGH JAYANTI
06-01-2018	Velocity and acceleration along a plane curve
07-01-2018	SUNDAY
08-01-2018	Gamma function, relation between beta & gamma function
09-01-2018	Duplication formula
10-01-2018	Problem based on beta & gamma function
11-01-2018	Angular velocity & acceleration along a plane curve
12-01-2018	Radial & transverse velocity & acceleration (polar co-ordination)
13-01-2018	Problems based on radial & transverse velocity
14-01-2018	SUNDAY
15-01-2018	Double integral and evolution of double integrals
16-01-2018	Substitution method for double integrals

Month

: January 2018

Date	Particulars
17-01-2018	Triple integral and substitution method for triple integral
18-01-2018	Tangential & normal velocities, accelerations
19-01-2018	Problems based on tangential & normal velocities & accelerations
20-01-2018	Relative displacement, velocity, acceleration
21-01-2018	SUNDAY
22-01-2018	VASANT PANCHAMI
23-01-2018	Application of double triple integral for lending area & volume of surfaces
24-01-2018	SIR CHOTU RAM JAYANTI
25-01-2018	Expression for the magnitude of a particle execution simple harmonic motion
26-01-2018	REPUBLIC DAY
27-01-2018	Expression for velocity & direction of relative velocity
28-01-2018	SUNDAY
29-01-2018	Dirichlet's integral
30-01-2018	Lovell's extension of dirichlet's integral
31-01-2018	GURU RAVIDAS BIRTHDAY

Month : February 2018

Date	Topics
01-02-2018	Nature of simple harmonic motion
02-02-2018	Amplitude of S.H.M & periodic motion, frequency
03-02-2018	Hooke's law
04-02-2018	SUNDAY
05-02-2018	Change of order of integration
06-02-2018	Fourier series trigonometric series
07-02-2018	Determination of Fourier coefficients or Euler's formulas
08-02-2018	Horizontal & vertical elastic string
09-02-2018	Problem based on horizontal & vertical elastic string
10-02-2018	MAHARSHI DAYANAND SARASWATI JAYANTI
11-02-2018	SUNDAY
12-02-2018	Fourier series for even and odd functions
13-02-2018	MAHA SHIVRATRI
14-02-2018	Properties of Fourier coefficients
15-02-2018	Newton's law of motion
16-02-2018	Pressure of a resting on a horizontal plane moving vertically upward or downwards

Month : **February 2018**

Date	Particulars
17-02-2018	Motion of two bodies concentrated by a string
18-02-2018	SUNDAY
19-02-2018	Fourier expansion of piecewise monotonic continuous function
20-02-2018	Fourier expansion of function having points of discontinuity
21-02-2018	Change of interval
22-02-2018	Motion on a smooth horizontal plane
23-02-2018	Atwood's machine
24-02-2018	Work, units of work, work done by a variable force
25-02-2018	SUNDAY
26-02-2018	Half range series
27-02-2018	Parseval's identity for Fourier series
28-02-2018	VACATION

Month : March 2018

Date	Topics
01-03-2018	GURU RAVIDAS BIRTHDAY
02-03-2018	HOLI
03-03-2018	VACATION
04-03-2018	SUNDAY
05-03-2018	Stereographic projection of complex numbers
06-03-2018	Limit of a complex function
07-03-2018	Continuity and uniform continuity of complex number
08-03-2018	Work done in stretching on elastic string
09-03-2018	Power of related problem
10-03-2018	Energy conservative system of forces
11-03-2018	SUNDAY
12-03-2018	Differentiability of a complex function
13-03-2018	Analytic function, sufficient condition for $f(z)$ be analytic
14-03-2018	C-R equation in polar form
15-03-2018	Impulse of a constant force
16-03-2018	Motion of a particle on a smooth curve in a vertical plane

Month : March 2018

Date	Particulars
17-03-2018	Motion on the outside of a vertical circle
18-03-2018	SUNDAY
19-03-2018	Orthogonal system and harmonic function
20-03-2018	Construction of an analysis function
21-03-2018	Exact differential method
22-03-2018	Motion on the inside of a smooth variable circle
23-03-2018	<u>SHAHEEDI DIWAS OF BHAGAT SINGH, RAJGURU & SUKHDEV</u>
24-03-2018	Cycloid, motion on a cycloid
25-03-2018	SUNDAY/ RAM NAVMI
26-03-2018	Multivalve function, elements function
27-03-2018	Properties of exponential & trigonometric function
28-03-2018	Properties of logarithmic function
29-03-2018	MAHAVIR JAYANTI
30-03-2018	GOOD FRIDAY
31-03-2018	Motion on a rough curve under gravity

Month : **April 2018**

Date	Topics
01-04-2018	SUNDAY
02-04-2018	Mapping by elementary function
03-04-2018	Conformal mapping
04-04-2018	Linear transformation, fixed points or invariant point
05-04-2018	Project:- motion of a projectile
06-04-2018	Time of flight, horizontal range & creates height of projectile
07-04-2018	Velocity at any point of the trajectory
08-04-2018	SUNDAY
09-04-2018	Nature of mob us transformation inverse point
10-04-2018	Critical mapping trigonometric transformation
11-04-2018	Linear fractional transformation
12-04-2018	Directions of projection for a particle to hit a given point
13-04-2018	Range & time of flight on an inclined plane
14-04-2018	<u>DR AMBEDKAR JAYANTI / VAISAKHI</u>
15-04-2018	SUNDAY
16-04-2018	Problem based on linear fractional transformation

Month : **April 2018**

Date	Particulars
17-04-2018	Condition that the particle may stripe the plane
18-04-2018	<u>PARASHURAMA JAYANTI</u>
19-04-2018	Central orbit, differential equation of central orbit
20-04-2018	Areal velocity, elliptic orbit hyperbolic orbit
21-04-2018	Parabolic orbit APSE and apsidal distance
22-04-2018	SUNDAY
23-04-2018	Kepler's laws of planetary motion
24-04-2018	Motion under the inverse require law
25-04-2018	Velocity and acceleration of a particle along a curve
26-04-2018	Velocity and acceleration of moving axes
27-04-2018	Acceleration along the tangent to the curve
28-04-2018	Acceleration along the principle normal
29-04-2018	Acceleration along the bi normal of a point
30-04-2018	Moving along any curve in three dimensions