

**HIMWANT KAVI CHANDRA KUNWAR BARTWAL RAJKIYA MAHAVIDYALAYA**  
**NAGNATH POKHARI, CHAMOLI**  
**DEPARTMENT OF MATHEMATICS**

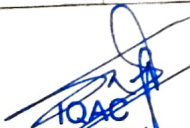
LECTURE PLAN FOR ACADEMIC SESSION- (2017-18)


CLASS- B.Sc. I<sup>st</sup> Year

COURSE NAME- Mathematics

NAME OF THE TEACHER-

Month	No. Of Teaching Days Available	Topic/Subject to be taught	Lectures required
July	-----	-----	-----
August	-----	-----	-----
September	18	Limit and Continuity, Differentiability of functions, Successive differentiation, Leibnitz's theorem, Partial differentiation, Euler's theorem on homogeneous functions.	16
October	24	Tangents and Normals, Curvature, Asymptotes, Parametric representation of curves and tracing of parametric curves	22
November	20	Polar coordinates and tracing of curves in polar coordinates and questions.	20
December	22	Rolle's theorem, Mean Value theorems, Taylor's theorem with Lagrange's and	21
January	14	Cauchy's forms of remainder, Taylor's series, Maclaurin's series.	12
February	24	First order higher degree equations solvable for x, y, p. Methods for solving higher-order differential equations.	22
March	22	Wronskian, Solving a differential equation by reducing its order. Linear homogenous & non-homogenous equations with constant coefficients.	22
April	20	The method of variation of parameters, The Cauchy-Euler equation, Simultaneous differential equations.	18
May	22	Concept of linear and non-linear partial differential equations, Formation of first order partial differential equations, Linear partial differential equation.	22
June	24	Exams	24

  
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LECTURE PLAN FOR ACADEMIC SESSION- (2021-22)

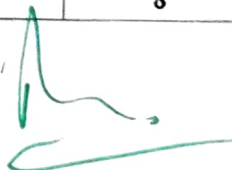
CLASS- B.Sc. 1<sup>st</sup> Year

COURSE NAME- Mathematics

NAME OF THE TEACHER-

Month	No. Of Teaching Days Available	Topic/Subject to be taught	Lectures required
July	22	Successive differentiation, leibnitz theorem, PDE, Jacobian, tangent normal, curvature & asymptotes	19
August	23	Integral eqn., Beta & Gamma function	22
September	20	Volume and Surface integral, real and complex parts of a number	18
October	16	Logarithmic of complex and hyperbolic inverse, Gregory's series	16
November	20	Set theory, Group theory, Lagrange's theorem & its applications	20
December	24	Homomorphism & isomorphism, Matrix and its properties	22
January	6	-----	5
February	17	Solution of homogeneous & non-homogeneous system of linear equations	16
March	22	Inverse of a matrix and properties	20
April	24	Eigen values & Eigen vectors, characteristic equations	20
May	22	Cayley Hamilton theorem & its applications	18
June	8	Exams	8

  
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# Lecture Plan

HIMWANT KAVI CHANDRA KUNWAR BARTWAL RAJKIYA MAHAVIDYALAYA NAGNATH POKHARI,

LECTURE PLAN FOR ACADEMIC SESSION : \_\_\_\_\_ 2021-22

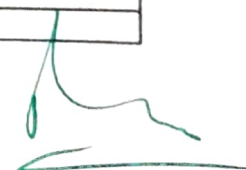
CLASS: \_\_\_\_\_ Bsc 1st yr

COURSE NAME: \_\_\_\_\_ Bsc. chemistry

NAME OF THE Chandra Sut Hariom

Month	No. of Teaching Days Available	Topic/ Subject to be taught
JULY	15	gases, deviation from ideal behavior, Van der Waals equation
AUGUST	22	Intermolecular forces, structure of liquids (a qualitative description), Structural differences
SEPTEMBER	26	Chemical kinetics and its scope, rate of a reaction, factors influencing the rate of a reaction -
OCTOBER	14	wave, Heisenberg uncertainty principle, atomic orbitals, Schrodinger wave equation, significance of
NOVEMBER	23	effective nuclear charge, Periodic properties: atomic and ionic radii, ionization energy, electron
DECEMBER	25	forces. block element: comparative study, diagonal relationship, salient features of hydrides
JANUARY	6	hydrolytic bond fission, types of reagents electrophile and nucleophile, types of organic
FEBRUARY	8	nitrates, methods of determination of reaction mechanism Alkanes and Cycloalkanes: IUPAC
MARCH	20	reaction - nomenclature, Baeyer's strain theory and its limitations, ring strain in small ring, banana
APRIL	20	Alkynes: Nomenclature of alkenes, methods of formation, mechanisms of dehydration of alcohols
MAY	15	derivatives, The aryl group, Aromatic nucleus and side chain,
JUNE		

  
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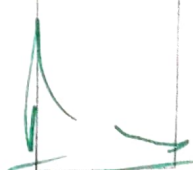
Department of Chemistry

**HIMWANT KAVI CHANDRA KUNWAR BARTWAL RAJKIYA MAHAVIDYALYA  
NAGNATH-POKHARI, CHAMOLI**

LECTURE PLAN FOR ACADEMIC SESSION: 2022-2023  
COURSE NAME: BACHELOR OF SCIENCE  
NAME OF THE TEACHER: KANCHAN SEHGAL

Class	Months	No. of Teaching days available	Topics	Lectures Required
<b>B.Sc.-I Sem-I</b>  <b>Paper 1:</b> Animal Physiology and Biochemistry	<b>September</b>	20	Nutrition: Food Constituents, intracellular and extracellular digestion. Digestion and absorption of carbohydrate, fat and protein. Respiration: Pulmonary ventilation, respiratory pigments, gaseous transport.	10
<b>B.Sc.-I Sem-I</b>  <b>Paper 1:</b> Animal Physiology and Biochemistry	<b>October</b>	12	Control of respiration. With reference to dissociation of oxyhaemoglobin. Excretion: Concept of ammonotelic, ureotelic and guanotelic animals, Urine formation in Mammals.	12
<b>B.Sc.-I Sem-I</b>  <b>Paper 1:</b> Animal Physiology and Biochemistry	<b>November</b>	23	Blood vascular system: Haemopoiesis, composition and functions of blood, blood coagulation. A brief account of immunity. Types of heart, origin and conduction of heart beat. Cardiac cycle Mechanism of Enzyme action, Kinetics, Inhibition and Regulation Vitamins, Types and source, Deficiencies.	21
<b>B.Sc.-II YEAR</b>		23	<b>Paper-I</b> Protochordates: General features and phylogeny of protochordates. Body organization of Balanoglossus, Herdmania and Amphioxus <b>Paper-II</b> Digestion: Intracellular and Extracellular digestion. Digestion and absorption of Carbohydrates, Lipids and Proteins. <b>Paper- III</b> Structure of DNA: nucleosides, nucleotides, polypeptide chain, Watson and Crick DNA double helix model.	21

  
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2021-22

CLASS: \_\_\_\_\_ B.Sc. 1st year COURSE NAME: \_B.Sc. Physics\_

NAME OF THE TEACHER: \_\_\_\_\_ Mr. Anil Kumar

LECTURE PLAN FOR ACADEMIC SESSION :

Month	No. of Teaching	Topic/ Subject to be taught	Lectures required
JULY	15	Admission process Describe the syllabus of all three papers and practical, Frame of reference, inertial and non-inertial frame of reference.	10
AUGUST	22	P1: Conservation of Momentum, work and Energy, work energy principle conservative force. P2: Scaler and vector field divergence, curl and gradient and their Application P3: Characteristics, differential equation of wave motion, Transverse and Standing wave	22
SEPTEMBER	26	P1: Angular velocity and angular momentum, Torque, Conservation of angular momentum P2: Electrostatics, Gauss's theorem and application, Electric field Intensity, electric dipole moment,	26
OCTOBER	14	P1: Rotational Motion, Moment of Inertia, Parallel and perpendicular axis theorem Moment of inertia-long rod, ring, disc, shell and solid sphere. P2: Biot savart law, and applications. P3: Superposition of S.H.M. - Lissajouse fig. Practical;	22
NOVEMBER	23	P1: Elasticity, Hooks Law, Stress & Strain, Poission ratio, Derivation for youngs modulus, Bulk Modulus, and Modulus of rigidity, derivation for relation of all modulus. P2: Magnetic field intensity, magnetic flux Magnetic susceptibility, diamagnetic, paramagnetic and ferromagnetic substance properties. P3: Damped harmoni motion equation of damped harmonic motion, dervation for example of damped harmonic motion Practical;	31
DECEMBER	25	P1: surface tension, surface energy, Excess pressure, application and derivation os surfacetension. P2: Electromagnetic induction, Faradays law, Lenz law, Self and mutual induction, R-L, L-C, & R-L-C circuit. P3: Forced Harmonic Oscillation, diff. equation and Solution. resonance and dervation for example of damped harmonic oscillation. Practical	35
JANUARY	6	P1: Viscosity, coefficient of viscosity, stokes law, P2: Equation Of Continuity, displacement current and derivation. P3; Sound intensity and loudness of Sound, musical notes, musical scale. Practical	10
FEBRUARY	8	P1: Numerical problems of vectors and law of motion P2; Numerical Problems of Electrostatics. P3. Numerical problems of S.H.M., damped harmonic motion, and forced harmonic motion.	8
MARCH	20	P1: Gravitational force, Gravitational field, Newton law, Central force, Gravitational energy and potential Keplers law P2: Capacitance of Spherical, Parallel plate and isolated Conductor, Dielectric constant, electric dispalcement vector. P3: Accoustic of building, reverberation and reverberatio time, Sabine Formula, accoustics aspect of hall. Practical	28
APRIL	20	P1: Satellite circular orbit and application, Geosynchronous orbit, basic idea of GPS P2: Derivation of Maxell Four Equiton, Poynting theorem and Poynting vector, Propegation of EM wave. P3: power dissaption and quality factor of Damped harmonic motion, Sharpness of resonance, bandwidth & quality factor of Force harmonic Oscillator.	26
MAY	15	Revise the syllabus and conduct final external practical exam.	12
JUNE		Final Exam	

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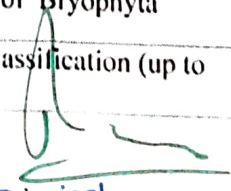
Assistant Prof. Phy.

Lectures-Master Plans

Session-2022-23

Class	Months	No. of Periods available	Topics	Lectures Required		
B.Sc.-I Sem-I  Paper I: Microbes, Algae, Fungi and Bryophytes (Course code: BOT101T) Credit: 4  Total Assigned Lectures- 60	September		Viruses-discovery, general structure, replication (general account),	02		
			DNA virus (T-phage); Lytic and lysogenic cycle.	02		
			RNA virus (TMV); economic importance;	01		
			Bacteria-discovery, general characteristics and cell structure;	03		
	October		reproduction-vegetative, asexual	01		
			Recombination (conjugation, transformation and transduction);	03		
	Economic importance.		01			
	<b>Total – 13 Lectures (02 lectures for Doubt clearance)</b>					
			October		General characteristics; Range of thallus organization	03
			November		Reproduction	01
Classification of algae		02				
Morphology and life-cycles of: Nostoc,		01				
Chlamydomonas,		01				
Oedogonium,		02				
Vaucheria,		01				
Fucus,		01				
Sargassum;		02				
Economic importance of algae.		01				
December		Introduction-general characteristics, ecology and significance,	01			
		range of somatic thallus organization, cell wall composition, nutrition,	02			
		reproduction	02			
		classification (G.C. Ainsworth);	01			
		life cycle of Stemonitis (Myxomycota)	01			
		Rhizopus (Zygomycota)	01			
		Penicillium (Ascomycota),	01			
		Puccinia, Agaricus (Basidiomycota);	03			
		Alternaria (Deutromycota),	01			
	Symbiotic associations: Lichens General account, reproduction and significance;	02				
December	Mycorrhiza: ectomycorrhiza, endomycorrhiza and their significance.	01				
December	General characteristics of Bryophyta	03				
	adaptations to land habit, classification (up to family),	03				

  
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LECTURE PLAN FOR ACADEMIC SESSION : 2022-23


CLASS: M.A. IV SEM COURSE NAME: Dissertation

NAME OF THE TEACHER: Upendra Singh Chauhan

Month	No. of Teaching Days Available	Topic/ Subject to be taught	Lectures required
JULY			
AUGUST			
SEPTEMBER			
OCTOBER			
NOVEMBER			
DECEMBER			
JANUARY			
FEBRUARY			
MARCH			
APRIL	—	• पोखरी तहसील में श्रमि उपयोग परिक्षण के बदले स्वखप का भौगोलिक अध्ययन	—
MAY	—	• पोखरी तहसील में जल का मानवीय जीवन पर प्रभाव का भौगोलिक अध्ययन	—
JUNE	—	Guidence	—

  
(Upendra Singh Chauhan)

  
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LECTURE PLAN FOR ACADEMIC SESSION : 2019-20

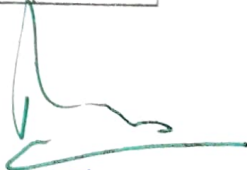
CLASS: M.A. II

COURSE NAME: Cosmographic Geology.

NAME OF THE TEACHER: Dr. Prem Singh Rana

Month	No. of Teaching Days Available	Topic/ Subject to be taught	Lectures required
JULY	24	Fundamental concepts of Cosmographic geology. methods of the Cosmography	18
AUGUST	20	Theory of Plate tectonics motion. building the mountains	14
SEPTEMBER	18	Theory of Plate Tectonics motion	18
OCTOBER	16	Cosmographic Process - Rivers glacier. air. and. water.	14
NOVEMBER	22	Applied Cosmography. engineering. works. in the Cosmography	20
DECEMBER	24	Fundamental concepts of Cosm.	24
JANUARY	-	-	-
FEBRUARY	20	Dissertation.	16
MARCH	18	/	18
APRIL	24		16
MAY	20		20
JUNE			

  
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LECTURE PLAN FOR ACADEMIC SESSION : 2020 - 21

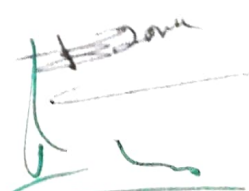
CLASS: M.A. 1<sup>st</sup> Sem

COURSE NAME: Practical Geography

NAME OF THE TEACHER: Dr. B. B. Singh Panu

Month	No. of Teaching Days Available	Topic/ Subject to be taught	Lectures required
JULY	22	Polyconic, International, Azimuthal Geography.	18
AUGUST	20	Wall's Stereographic Intersected meridians and parallels	14
SEPTEMBER	24	morphometric analysis in geography	16
OCTOBER	22	morphometric analysis in geography	18
NOVEMBER	20	Slope analysis by Wentworth-Smith's theory.	14
DECEMBER	24	Profiles Transverse, Serial in geography	20
JANUARY	10	Area Height, Altimetric.	6
FEBRUARY	18	Interpretation of Topographical	16
MARCH	20	All about. ———	20
APRIL	19	Polyconic International,	16
MAY	22	<del>Practical</del> Paper.	22
JUNE	—	— — — — —	—

  
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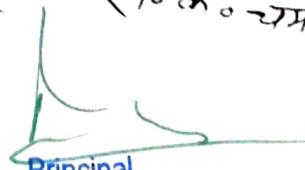
  
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H. K. C. K. B. Rajkiya Mahavidyalaya Nagnath Pokhari, Chamoli  
 Lecture Plan for Academic Session : 2022-23  
 Class - B.A. 1<sup>st</sup> Sem. Course Name - प्राचीन एवं आधुनिक कालीन काव्य

Name of The Teacher : Dr. N. K. Chamola

Month	No. of Teaching Day's Available	Topic / Subject to be Taught	Lectures Required
September	20	प्राचीन हिन्दी काव्य : परिचय एवं ऐतिहासिक पृष्ठभूमि, उद्भव और विकासक्रम विशेषताएं।	20
October	07	आधुनिक कालीन हिन्दी काव्य : परिचय, आधुनिक आन्दोलन एवं प्रमुख किष्कान्त	10
November	14	आधुनिक कालीन काव्यधारा - निर्गुण काव्य, सगुण काव्य, कविपरिचय, काव्यग्रंथ, विशेषताएं	16
December	10	कवि - चन्दबरदाई - जीवनवृत्त, रचनाएं, लेखनशैली, पृथ्वीराजरासो पर परिचय, पद्मावती लम्प - व्याख्या सहित सारांश	12
January	05	कबीर और उनकी पद व्याख्या - जीवनवृत्त, रचनाएं, गुरुकौशंग, विरह कौशंग, परचा का अंग, पद व्याख्या आदि।	12
February	11	जायसी - 'पद्मावत' (मानसरोदक खंड) - व्याख्या आंग, कवि परिचय, रचनाएं, शैली, भाषा भांड, सूर - अमरगोपी	15
March	07	तुलसीदास और उनका काव्य - कवि परिचय, काव्य ग्रंथ लोकनाटक, लमनपदादी, दृष्टिकोण, भाषा शैली, 'अधोदयाकांड' - दोहा सं. 125-131, 'विनयपत्रिका' - चद व्याख्या आदि	10
May	13	हिन्दी में गद्य का आरम्भिक स्वरूप - विकास क्रम, हिन्दी उपन्यास का उद्भव एवं विकास, 'कगार की आंग' उपन्यास की विषयवस्तु एवं लक्षणा	15

  
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