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NAGNATH POKHARI, CHAMOLI
DEPARTMENT OF MATHEMATICS

LECTURE PLAN FOR ACADEMIC SESSION- (2017-18)
CLASS- B.Sc. IstYear 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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DEPARTMENT OF MATHEMATICS

LECTURE PLAN FOR ACADEMIC SESSION- (2021-22)
CLASS- B.Sc. 1st 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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Lecturer 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 uncertainity 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	hetrolytic bond fission.types of reagents electrophile and nucleophile,types of organic
FEBRUARY	8	nitranes ,methods of determination of raction mechanism**Alkanes and Cycloalkanes:**IUPAC
MARCH	20	reaction -nomenclature , baeyers 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

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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.Sc.-I Sem-I **Paper 1:** Animal Physiology and Biochemistry	**September**	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.Sc.-I Sem-I **Paper 1:** Animal Physiology and Biochemistry	**October**	12	Control of respiration. With reference to dissociation of oxyhaemoglobin. Excretion: Concept of ammonotelic , ureotelic and guanotelic animals, Urine formation in Mammals.	12
B.Sc.-I Sem-I **Paper 1:** Animal Physiology and Biochemistry	**November**	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.Sc.-II YEAR		23	Paper-I Protochordates: General features and phylogeny of protochordates. Body organization of balanoglossus, Herdmania and Amphioxus Paper-II Digestion: Intracellular and Extracellular digestion. Digestion and absorption of Cabohydrates, Lipids and Proteins. Paper- III 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 Physcis_____

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 Momemtum,work and Energy, work energy principle conservative force. P2:Scaler and vector field divergence,curl and gradient and their Application P3:Characterstics,differntial euation 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 momemt,	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 sevart law, and applications. P3. Superposition of S.H.M. -Lissajouse fig. Practical;	22
NOVEMBER	23	P1- Elastisity , Hooks Law, Stress & Strain , Poission ratio, Derivation for youngs modulas, Bulk Modulas, and Modulas of rigidity, derivation for relation of all modulas. P2- Magnetic field intensity, magnetic flux Magnetic susceptibility, dimaganetic, paramagnetic and ferromagnetic substance properties. P3: Damped harmoni motion equation of damped harmonic motion ,derevation 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.eqaution and Solution. resonance and derevation for example of damped harmonic oscillation. Practical	35
JANUARY	6	P1:Viscosity, coefficent 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, Sebine 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 Eqution, 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.

Department of Botany
Official email ID- *botany.gdcpokhari@gmail.com*

Lectures-Master Plans **Session-2022-23**

Class	Months	No. of Periods available	Topics	Lectures Required
B.Sc.-I Sem-I **Paper 1:** 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
			Total – 13 Lectures (02 lectures for Doubt clearance)	
	October		General characteristics; Range of thallus organization	03
			Reproduction	01
			Classification of algae	02
	November		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
			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 भूमि उपयोग परिवर्तन के बदलते स्वरूप 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 Sem-I COURSE NAME: Geomorphological Geography.

NAME OF THE TEACHER: Dr. Prem Singh Rana

Month	No. of Teaching Days Available	Topic/ Subject to be taught	Lectures required
JULY	21	Fundamental concepts of Geomorphology. methods of the Geography	18
AUGUST	20	Theory of Plate tectonics mountain. building the Geography	14
SEPTEMBER	18	Theory of Plate Tectonics mountains	18
OCTOBER	16	Geomorphic Process - Rivers glaciers. air. and. water.	14
NOVEMBER	22	Applied Geomorphology. engineering. works. in the Geography	20
DECEMBER	21	Fundamental concepts of Geom.	21
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. 1st Sem COURSE NAME: Practical Geography

NAME OF THE TEACHER: Dr. Prem Singh Rana

Month	No. of Teaching Days Available	Topic/ Subject to be taught	Lectures required
JULY	22	Polyconic, International, Bonnine. Geography.	18
AUGUST	20	Gallis Stereographic Interrupted modified and Geography	14
SEPTEMBER	24	morphometric analysis in geography	16
OCTOBER	22	morphometric analyses in geography	18.
NOVEMBER	20	Slope analysis by wentworth Smith's Henry.	14
DECEMBER	24	Profiles Transverse, Serial in Geography	20
JANUARY	10	Area Height, Altimetric.	6.
FEBRUARY	18	Interpretation of Topographical	16
MARCH	20	All unit. ———	20
APRIL	19	Polyconi International.	16
MAY	22	[redacted]. Paper.	22
JUNE	—	— — — — —	—

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Lecture Plan for Academic Session : 2022-23

Class - B.A. 1st Sem. Course Name - प्राचीन एवं भक्तिकालीन काव्य

Name of The Teacher is : 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 विशेषताएँ।	20
October	07	भक्तिकालीन हिन्दी काव्य : परिचय, भक्ति आन्दोलन एवं प्रमुख सिद्धान्त	10
November	14	भक्तिकालीन काव्यधारा - निर्गुण काव्य, सगुण काव्य, कविपरिचय, काव्यग्रंथ, विशेषताएँ	16
December	10	कवि चन्दबरदाई - जीवनवृत्त, रचनाएँ, लेखनशैली, पृथ्वीराजरासो - परिचय, पद्मावतीसमय - व्याख्या सहित सारांश	12
January	05	कबीर और उनकी पद व्याख्या - जीवनवृत्त, रचनाएँ, गुरुकौ अंग, विरह कौ अंग, परचा कौ अंग, पद व्याख्या आदि।	12
February	11	जायसी - 'पद्मावत' (मानसरोदक खंड) - व्याख्या, अंश, कवि परिचय, रचनाएँ सूफी शैली, भाषा आदि, सूर - भ्रमरगीत व्याख्या	15
March	07	तुलसीदास और इनका काव्य - कवि परिचय, काव्य ग्रंथ, लोकनायकत्व समन्वयवादी दृष्टिकोण, भाषा शैली, 'अयोध्याकांड' - दोहा सं. 125-131, 'विनयपत्रिका' - पद व्याख्या आदि	10
May	13	हिन्दी में गद्य का आरम्भिक स्वरूप - विकास क्रम, हिन्दी उपन्यास का उद्भव एवं विकास, 'कर्मभूमि' उपन्यास की विषयवस्तु एवं समीक्षा	15

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