



H.K.E. Society's
SMT. V.G. DEGREE COLLEGE FOR WOMEN,
KALABURAGI

Affiliated to K.S.W.U. Vijayapur - NAAC Accredited 'A' Grade



MONTHWISE TEACHING PLAN 2018-19 **BIO TECHNOLOGY**

Name of the Staff: Dr. Basavarajeshwari (Even Semester)
Ananti Class: B.Sc. II semester Sub: Biochemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>I. Introduction:- Physical & chemical nature of biological materials.</u>	
Jan-2019 (25 days)	<u>II. Carbohydrates</u> <u>III. Proteins</u>	
Feb (24 days)	<u>IV. Lipids.</u> <u>V. Enzymes.</u>	
March (24 days)	<u>VI. Nucleic acids.</u> <u>VII. Analytical techniques-</u> <u>1) Chromatography.</u>	
April (16 days)	<u>2) Spectrophotometer,</u> <u>3) Centrifugation.</u> <u>4) Electrophoresis.</u> <u>5) Radioactivity.</u>	

Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019

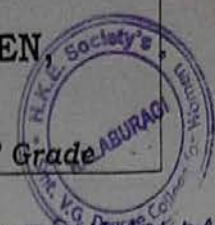
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MONTHWISE TEACHING PLAN 2018-19

BIOTECHNOLOGY

Dr. Balavarajeshwari (Even Semester)

Agriculture & Environment

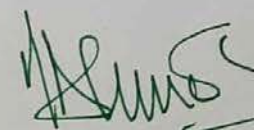
Name of the Staff: Swanti Class: B.Sc II semester

Sub: Biotechnology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	1) Introduction to agricultural Biotechnology 2) Renewable & Non-renewable resources	
Jan-2019 (25 days)	3) Transgenic plants 4) Impact of conventional & non-conventional fuels on environment 5) Treatment of municipal & industrial waste water effluents.	
Feb (24 days)	6) Biofertilizers & Biopesticides. 7) plant growth regulators. 8) Germ plasma preservation.	
March (24 days)	9) Biodegradation & Bioremediation 10) Production of Biofuels - Biogas, Biodiesel, Bihydrogen, bioethanol 11) Microbial ore leaching & recovery 12) Study of vermicomposting	
April (16 days)	13) Study of air, water & soil pollution 14) Environmental protection act & related issues.	

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(Even Semester)

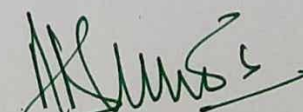
Name of the Staff: mangala sm Class: IV

Sub: molecular Biology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	① Introduction, experimental proof of DNA & RNA as genetic material, central dogma.	
Jan-2019 (25 days)	② DNA Replication: prokaryotic & eukaryotic enzymes & proteins involved in replication, theta & rolling circle model. ③ DNA Damage & Repair: causes & mechanisms - photo reactivation, excision repair, mismatch repair & SOS repair	
Feb (24 days)	4) Recombination in prokaryotes: transformation conjugation & transduction - mechanism. 5) Genetic code: Expression of genetic code, properties & deciphering.	
March (24 days)	6) Transcription: process of transcription & post-transcription modification. 7) Translation: Initiation, elongation & termination of protein synthesis.	
April (16 days)	8) Regulation of gene expression: Regulation of gene expression in prokaryotes Lac operon concept, Regulation of gene expression in eukaryotes - transcriptional activation, galactose metabolism in yeast.	

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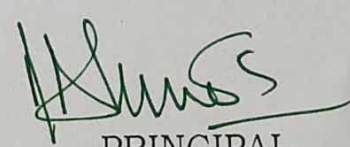
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Name of the Staff: mangalav R Class: BSc II sem Sub: Industrial & Medical Biotech

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	1) Introduction to industrial Biotech Basic principles of fermentation technology, scale up of fermentation	
Jan-2019 (25 days)	2) screening & isolation of industrially imp microorganism. 3) Fermentation media - Natural & synthetic media, sterilization technq. - Heat, radiation, Filtration methods. 4) Fermentors: process of Aeration, Agitation	
Feb (24 days)	temp. regulation & foam control types of fermentors - typical, airlift, tower & bubble up fermenter. 5) types of fermentation: solid state, submerged fermentation & continuous fermentation immobilized enzymes & cell bioreactors.	
March (24 days)	6) process development: shake flask ferment DSP, disinfection of cells, separation, extraction, concentration & purification of products. 7) production of microbial products: Brief account of the following products obtained by industrial microbiological fermentation. Lactic acid, Beer, penicillin, Brief account of steroid biotransformation.	
April (16 days)	8) Enzyme Biotech: characteristics of enzymes industrially produced enzymes- Amylase. Industrial uses of enzymes 9) Fermented foods: yogurt, Buttermilk Dosa, cheese, Temped, microbial foods - SCP, SCO & probiotics.	

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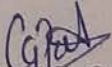
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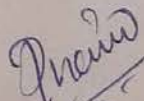
Name of the Staff: Sapna Shukla Class: B.Sc II Sem


Sub: 'C' Programming

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days) (06 classes)	<u>UNIT-1</u> : user defined fun, forms of function, return values & types, calling a function, categories of function	
Jan-2019 (25 days) (17 classes)	Cont... categories of function, call by value, call by reference. <u>UNIT-2</u> : structure & union defn, initialization, declaration, comparison, switch, arrays <u>UNIT-3</u> : Pointers, accessing the address of variable	
Feb (24 days) (16 classes)	Initializing & declaring pointers & arrays, pointers & structures, dynamic allocation. <u>UNIT-4</u> : FILES: defn of files, opening & closing modes of a file, creating & processing data file, types	
March (24 days) (16 classes)	<u>UNIT-5</u> : MS-office - Internet Tools Features, cell, cell pointers, cell address, parts of MS-excel window, creating excel sheet functions in excel, charts. <u>UNIT-6</u> : Concept of n/w - LAN, WAN, MAN.	
April (16 days) (08 classes)	Cont... uses of internet, prerequisites of internet, www, website, webpage, e-mail, creating, sending & receiving, adv & dis of e-mail, downloads, upload.	

- Note: 1. Opening Day : 21.02.2018
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MONTHWISE TEACHING PLAN 2018-19


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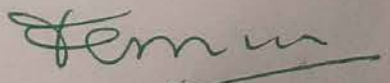
Name of the Staff: Jagadevi Class: IV sem Sub: DS using C.

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days) (05)	Introduction to data structure classification & operations on DS	only 2 classes were conducted
Jan-2019 (25 days) (18)	Dynamic memory allocation, realloc, initialize, access a variable through pointer, sorting, arrays & different types of data	16 classes conducted
Feb (24 days) (16)	Stacks, arrays, operation on stack. Queue, arrays, operation on queue	
March (24 days) (12)	Linked lists, arrays, represent- ation, insertion & deletion singly linked list, doubly linked list, operation on singly linked list	
April (16 days) (10)	Trees, arrays, representation, creation, BST, In order, pre-order & post order searching BST, sequential & Binary search.	

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(Even Semester)

Name of the Staff: Smita Paul Class: B.Sc VI sem Sub: Visual Basic 6.0

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days) (08)	i Introduction to VB. Integrated development environment. Menu Bar, ToolBar, Form design. Project exploration. ii Form object: Properties of all forms	only 3 classes, were conducted
Jan-2019 (25 days) (18)	iii. Events, Methods. Events - load, Unload, click, Activate, Deactivate. Methods, Show, Hide, Controls: Properties of events of different controls, Labels, Textbox, Image, Timer.	14 classes conducted
Feb (24 days) (16)	v Programming in VB. Data types, variables, declaration & scope, arithmetic operations. Study of form and code modules.	
March (24 days) (18)	Private and public procedures. Main procedures. Subs. vi Branching & looping. Statements vii Array: array declar, Array() Toolbar creating MDP, MS Common Control	
April (16 days) (17)	viii Methods and Properties of an object, class Modules, Encapsulation & Inheritance (DLLs), Window API, files, Database connectivity - DAO, & ADO, Tables & Queries Access object	

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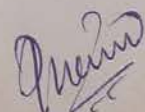
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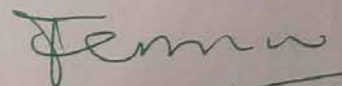
Name of the Staff: Smt. Premila S. Jang Class: B.Sc VI sem Sub: 6.2 Java

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days) (2 days)	Unit I - Introduction of Java Features & concepts	
Jan-2019 (25 days) (13 days)	Unit I - Features Unit IV - Class, constructor, Inheritance, overloading overriding, Exception Handling Unit II - Data types, Java Tokens	
Feb (24 days) 12 days (4 days I 9th)	Unit III - operators, Type casting. Selection Statement Unit V - Applet, with simple programs	
March (24 days) (14 days)	Unit VI Multithreaded Programming Unit VII Graphic programming	
April (16 days) 9 days	Unit VIII - Event Handling. Key & Mouse Events with simple programs.	

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MONTH WISE TEACHING PLAN 2018-19

(Even Semester)

Staff: Dr. Mallikarjun Chickpatil

Class: B Sc II Sem

Sub: Electronics

Paper: 2.1 Electronic Circuits



Month	Syllabus to be covered	Remarks
Jan (25 days)	Unit I Linear power supplies: Introduction: General block diagram of a linear regulated power supply. Rectifiers: Half wave , full wave and bridge rectifiers-Rectification efficiency and ripple factor. Filter: series inductor filter and shunt capacitor filter. Voltage regulators: Zener as voltage regulator, series and shunt transistor regulators. Unit V Transistor biasing and equivalent circuit: Introduction- Transistor biasing: Need for biasing, load line –operating point, Thermal runaway.	
Feb (25 days)	Different biasing circuits, stability factor, voltage divider biasing, bias compensation using diode and thermistor. H-parameters hybrid equivalent model of a transistor in CE mode. Expression for current gain, voltage gain, input and output impedances. Unit VI Voltage and Current amplifiers: Classification of amplifiers, RC coupled amplifiers, transformer coupled amplifiers and direct coupled amplifiers, their frequency response. Emitter follower, darlington pair amplifier, FET amplifier(common source) and frequency response and bandwidth.	
March (25 Days)	Unit-VII Power Amplifier: Class A single ended power amplifier, class B push-pull amplifier (Transformer coupled) complementary symmetry class B push pull amplifier, harmonic distortion and cross over distortion. Expression for the power efficiency for the above amplifiers. Tuned amplifier: Single tuned amplifier and double tuned amplifier (frequency response, band width, Q factor). Unit-II IC Voltage Regulators: Introduction, Functional block diagram. Features, practical circuits using-78XX and 79XX series. Adjustable voltage regulators: Functional block diagram. Features, practical power supply circuits- using LM 317, LM 337 and LM 723.	
April (25 Days)	Unit III : Controlled rectifier. Introduction, Principal of phase control, firing and conduction angle. Different firing scheme-R firing, RC firing UJT firing. HWR, FWR and bridge rectifier using SCR. Unit IV Switch Mode Power Supply(SMPS) Introduction, General block diagram of SMPS. Advantages and disadvantages of SMPS over linear power supply. Classification of SMPS, Functional block diagram of SMPSs ICSG-3524/TL497, Step up and step down SMPS using IC SG3524.	

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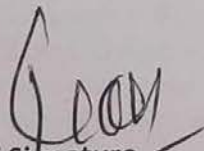
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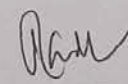


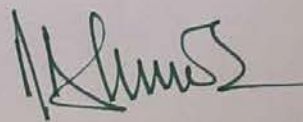
Staff: Dr. Mallikarjun Chickpatil


Class: B Sc Sem VI Sub: Electronics Paper: 6.2: INSTRUMENTATION AND MICROCONTROLLER

Month	Syllabus to be covered	Remarks
Jan (25 days)	UNIT - I: Instrumentation (Sensors and Applications): Resistance type temperature sensors, Thermistors, Thermocouples, Solid state sensors,	
Feb (25 days)	UNIT - I: Instrumentation (Sensors and Applications): Quartz thermometers, radiation type sensors – optical parameters.	
March (25 Days)	UNIT - I: Instrumentation (Sensors and Applications): Displacement and strain transducers: LVDT, Strain guage – types of strain gauges, material for strain guage.	
April (25 Days)	UNIT - I: Instrumentation (Sensors and Applications): Pressure transducers: piezo electronic pressure transducer.	


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MONTH WISE TEACHING PLAN 2018-19

(Even Semester)



Staff: Sri. Y.N.Ravindra

Class: B Sc VI Sem

Sub: Electronics

Paper: 6.1: COMMUNICATION ELECTRONICS- II

Month	Syllabus to be covered	Remarks
Jan (25 days)	Unit – I: Monochrome Television: Elements of TV broadcasting, principles of scanning, interlace scanning, aspect ratio, composite video signal (CVS), blanking and synchronizing pulses, TV channel (CCIR-B) allotment of frequencies. Camera Tubes: Camera tube characteristics, principle, construction and working of Vidcon and Image Orthicon camera tubes. VSB transmission, Block diagram of Monochrome TV transmitter and receiver.	
Feb (25 days)	Unit – II: Colour Television: Colour TV principle, compatibility, mixing of colours, colour camera system, Luminance and Chrominance signal, colour subcarrier, PAL-system, PAL encoder and decoder, colour picture tube and block diagram of Colour Television receiver.	
March (25 Days)	UNIT – III: Digital communication: Introduction, different modulation techniques – PAM, PWM, PPM, PCM and Delta modulation. Synchronous, asynchronous transmission, probability of bit error in base band transmission, the matched filter, optimal terminal filters, bit timing recovery, eye diagrams, digital carrier systems (ASK, FSK, PSK, DPSK, QPSK) Carrier recovery, circuits.	
April (25 Days)	UNIT - IV: Fibre optical communication: Advantages of Optical Fiber. Principle of operation, acceptance angle and numerical aperture. Modes and configuration. Fiber Types: Step Index & Graded Index. Optical Sources: LED & Laser Diode. Optical Detectors: PIN Detector & Avalanche photodiode. General OFC system-block diagram and working of each block.	

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MONTH WISE TEACHING PLAN 2018-19

(Even Semester)

Staff: Sri Y.N.Ravindra

Class: B Sc VI Sem Sub: Electronics Paper: 6.2: INSTRUMENTATION AND MICROCONTROLLER

Month	Syllabus to be covered	Remarks
Jan (25 days)	UNIT – II Signal Conditioners: Filters- Integrators, Differentiators and active filters-	
Feb (25 days)	UNIT – II Signal Conditioners: Low pass, High pass, Band pass and Band rejection filters. Precision rectifier using Op-Amp.	
March (25 Days)	UNIT – II Signal Conditioners: Peak detector, sample and hold circuit, phase sensitive detector,	
April (25 Days)	UNIT – II Signal Conditioners: instrumentation amplifiers, isolation amplifiers and lock in amplifier.	

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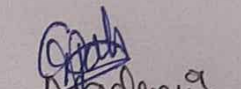
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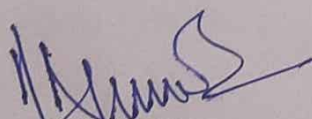



Staff: Dr. Rajendra B Konda


Class: B Sc VI Sem Sub: Electronics Paper: 6.2: INSTRUMENTATION AND MICROCONTROLLER

Month	Syllabus to be covered	Remarks
Jan (25 days)	UNIT – III: Microcontroller 8051: Comparison between Microprocessor and Microcontroller, 8-bit and 16-bit microcontrollers. Microcontrollers and embedded processors, overview of 8031 & 8051 family, 8051 architecture,	
Feb (25 days)	UNIT – III: Microcontroller 8051: Registers and memories in 8051, Register banks, flag bits, PSW register, data types, JUMP, LOOP and CALL instructions.	
March (25 Days)	UNIT – IV: Addressing modes and Instruction set: I/O programming of 8051, I/O programming, bit manipulation, addressing modes, arithmetic, logical and single bit instructions and programming.	
April (25 Days)	UNIT – V: Timer/Counter programming and Interfacing: 8051 timer programming, Counter programming interfacing ADC and DAC to 8051.	


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MONTH WISE TEACHING PLAN 2018-19

(Even Semester)

Staff: Dr. Rajendra B.Konda

Class: B Sc IV Sem

Sub: Electronics

Paper: 4.1: DIGITAL ELECTRONICS

Month	Syllabus to be covered	Remarks
Jan (25 days)	UNIT – I: Number Systems: Decimal, binary, octal and hexadecimal – their conversion. BCD numbers (8421), Grey, Excess3, ASCII and EBCDIC codes and Error detecting codes. Arithmetic operations in binary, hexadecimal, BCD addition and excess3 addition. Sign magnitude conversion, 1's and 2's complements-2's complement subtraction, Signed number arithmetic-addition.	
Feb (25 days)	UNIT – II: Logic and Boolean algebra: Logic gates: Construction of basic gates- AND, OR and NOT using diodes and transistors, NAND, NOR,XOR and XNOR gates (logic symbols and truth tables), NAND and NOR as universal gates. Boolean algebra-laws & theorems, De-morgan's theorems, simplification of logical expressions using Boolean Algebra, Karnaugh maps (K-map techniques to solve 3 variable and 4 variable expressions).	
March (25 Days)	UNIT- IV: Counters and registers: Binary counter, asynchronous counter, synchronous counter, binary decade counter with decoding gates, Mod-N counter, shift registers, different types of shift registers, up-down counter, ring counter.	
April (25 Days)	UNIT-V: Introduction of IC logic families: Digital IC terminology, TTL logic family, standard TTL series characteristics, TTL open collector outputs, tristat TTL, ECL, IC family, CMOS series and characteristics.	

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(Even Semester)

Name of the Staff: Sudharani Class: B.Sc IV Sem Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Groups, sub-groups, cyclic groups & examples on it.	
Jan-2019 (25 days)	Lagrange's theorem and it's consequences, Fermat's & Euler's theorems, Homomorphism & Isomorphism. Normal sub-groups, quotient groups. The fundamental theorem of Homomorphism.	
Feb (24 days)	permutation of groups, Rings, sub-rings, Integral domains and fields & their properties. LINEAR ALGEBRA: vector space & examples including \mathbb{R}^n & \mathbb{C}^n . Properties of vector space: Subspace.	
March (24 days)	Criteria for a subset to be subspace. Linear combination concepts of linearity independent & dependent sub-sets, Basis & dimension of a vector space & standard results related to a basis, Examples illustrating concepts & results. Linear transformation Properties of linear transformation.	
April (16 days)	Matrix of a linear transformation, change of a basis, range & kernel of linear transformation, rank nullity theorem.	

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 Professor & H.O.D.
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 Smt. V.G. Women's College,
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MONTHWISE TEACHING PLAN 2018-19


(Even Semester)

Name of the Staff: Dr. Veena H Class: Bsc II sem Sub: Maths

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Just introduction about the reduce of Papers, internal marks distribution - all explained	
Jan-2019 (25 days)	Calculus Paper - I - continuity & Differentiability - Taylors & Maclaurins Series I unit	
Feb (24 days)	Indeterminate forms - Com Successive Differentiation II unit	
March (24 days)	III unit Functions of more than one independent variable - Dependent and Independent functions	
April (16 days)	III unit proofs of Jacobians - Functional Relations Revision classes	

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19


(Even Semester)

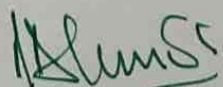
Name of the Staff: Dr. Veena P.H Class: Bsc IV sem Sub: Maths

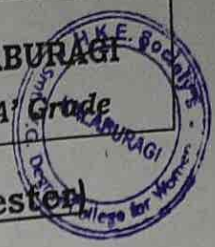
Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Introduction about the syllabus - question paper - every thing is explained : Distribution of D.M.	
Jan-2019 (25 days)	I unit - Algebra III - started.	
Feb (24 days)	II unit - Differential Equations	
March (24 days)	II unit - Cauchy Euler Diff. eqns of order two - III unit - Line and Multiple integrals 5	
April (16 days)	Defn of triple integration and Evaluation Revision	

- Note: 1. Opening Day : 21.12.2018
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MONTHWISE TEACHING PLAN 2018-19 (Even Semester)

Name of the Staff: Dr. Veena PH Class: Bsc VI sem Sub: Maths

Month (Working Days)	Syllabus to be covered	Remarks
<u>DEC-2018</u> (08 days)	Due to valuation and practical Exams, students were not available upto Dec 22, From 23, Dec class started- syllabus and introduction of all three papers, about internal tests, marks distribution of - 6.1 Paper started	
<u>Jan-2019</u> (25 days)	Paper 6.1 - Errors & solution of non-linear eqns - upto Gauss-seidal M Paper 6.2 - Trigonometry I unit - upto Continuity & Differentiability Paper 6.3 - Theory of graphs with Basic defns	
<u>Feb-2019</u> (24 days)	Paper 6.1 - Finite Differences - Fourth order RungeKutta method Paper 6.2 - Complex line integration - Improper Integrals ^{half} completed	
<u>March-2019</u> (24 days)	Improper integrals continued - Paper 6.2 - Lirolle's Thm Paper 6.3 - cut set - Eulerian and Hamiltonian graphs March - 18 th - Lockdown started	
<u>April-2019</u> (10 days)		

Note: 1. Commencement of II, IV & VI Sem Classes : 21.12.2018
 2. End of II, IV & VI Sem Classes : 15.04.2019
 3. Commencement of Vacation for Teachers : 23.04.2019

Co-ordinator

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: DR. FARZANA JABER Class: B.Sc II Sem. Sub: ZOOLOGY.

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Unit 1</u> A. Introduction to chordata : General characters of chordates.	
Jan-2019 (25 days)	<u>Phylum chordata</u> : outline classification upto classes with examples. General characters of Sub phylum Hemichordata, Urochordata, Cephalochordata & Vertebrata. B. Class cyclostomata - General characters with suitable examples. General organisation of petromyzon	
Feb (24 days)	<u>Unit 2</u> : Pisces: General characters & classification upto class level with suitable examples. Types of scales & fins in fishes. <u>Unit 3</u> : Amphibia: General characters & classification upto orders & suitable examples. Ecology & distribution of Ichthyophis, Hyla, Bufo & Salamanders.	
March (24 days)	<u>Unit 4</u> : Aves: General characters & classification upto orders with examples. Flight adaptations of birds Economic importance of birds.	
April (16 days)	<u>Unit 5</u> : Osteology: Rabbit - Axial skeleton - vertebrae & Appendicular skeleton: Pectoral & pelvic girdles & limb bones.	

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: DR. FARZANA Class: B.Sc IV Sem Sub: ZOOLOGY

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Introduction to Physiology : Branches & Scope of physiology .	
Jan-2019 (25 days)	Endocrine System : Functions of mammalian endocrine glands - Pituitary, thyroid, parathyroid, pancreas, adrenals, testis, ovary, placenta & pineal gland. Hypothalamus & its stimulatory & inhibitory hormones .	
Feb (24 days)	Circulation : Types of circulation - Structure, functions & regulation of human heart, blood pressure, composition of human blood, neurogenic & myogenic hearts. Muscle contraction : Principle types of muscles	
March (24 days)	Muscle contraction contd : Ultra str. of striated muscles . Contractile proteins - myosin, actin, tropomyosin, troponin & actinin . Mechanism of muscle contraction & relaxation - sliding filament theory . Nervous co-ordination : Nature & conduction of nerve impulse - Synaptic transmission, neuromuscular junction & neurotransmitters .	
April (16 days)	Digestion : Mechanical digestion & chemical digestion Digestion & absorption of proteins, carbohydrates & lipids .	

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

[6.1 Paper]

Name of the Staff: Chandrakala, Class: B.Sc VI Sem. Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Cell-Biology: History of cell biology and its branches. Cell theory. Ultrastructure of animal cell.	
Jan-2019 (25 days)	Structure & functions of :- Endoplasmic Reticulum, Golgi Complex, Mitochondria. Mitosis, Meiosis and cell cycle.	
Feb (24 days)	Structure and functions of Lysosomes, Ribosomes, Nucleus, Centrioles, Plasma-membrane, cytoskeletal elements.	
March (24 days)	Biology of cancer: Types of cancer, characteristic of cancer cells, Carcinogenic agents (Physical Chemical and biological) light microscope. Seminars - 2	
April (16 days)	Electron microscope. its study and applications. Seminars - 2. Revision.	

- Note: 1. Opening Day : 21.12.2018
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3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19


(Even Semester)


Name of the Staff: Chandrakala Pato Class: B.Sc VI Sem Sub: Zoology Paper

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Habitat Ecology</u> : Introduction.	
Jan-2019 (25 days)	Physico-chemical feature, Ecological Location and classification of <u>marine biota</u> , Ecological adaptations to pelagic water and Deep Sea.	
Feb (24 days)	<u>Fresh water habitat</u> : - Physico-chemical features of lentic and lotic water bodies. Ecological adaptations of freshwater animals living in lotic water bodies.	
March (24 days)	<u>Estuarine habitat</u> : - Physico-chemical features and biota. Mangroves. <u>Terrestrial habitat</u> : - A brief account of biomes [Tundra, taiga, chaparral, Grasslands, Savannas, Desert & Deciduas]	
April (16 days)	Wild Life Problems, Distribution of wild life in India. Agencies engaged in wild life Conservation.	

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Chandrakala . Class: B.Sc II Sem . Sub:

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Class:- Mammalia :- General Characters of Mammalia upto subclass with suitable examples.	
Jan-2019 (25 days)	Type study of Rat; Morphology digestive, Aerial system. Seminar - 1.	
Feb (24 days)	Venous system and Reproductive system. Seminar - 1, Revision.	
March (24 days)		
April (16 days)		

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: A. Neelakanti Class: IV sem.

Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Syllabus dictation & discussion	
Jan-2019 (25 days)	<u>Enzymes</u> , <u>Sept</u> , chemical nature, properties, Enzyme action mechanism, specificity, Reversibility, inhibitors, Co-factors.	
Feb (24 days)	<u>Vitamins</u> : Fat soluble vit's. (A, D, E & K) Water soluble vit's: (B complex & C) Functions, deficiency & symptoms.	
March (24 days)	<u>Bioenergetics</u> - Glycolysis - flow chart step wise reaction Krebs cycle (Krebs cycle) Electron Transport System.	
April (16 days)	<u>Revision</u> : Seminar, Exp discussion, Tests etc activities.	

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

A. Neelakanti
 ACADEMIC COORDINATOR

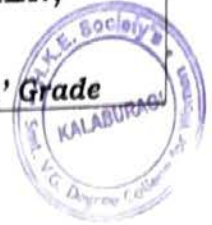
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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: A. Naalakantappa Class: VI sem (6.1) Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Introduction:-</u> Syllabus dictation & discussion.	
Jan-2019 (25 days)	<u>Introduction:-</u> Branches, scope, theories of deopt., pleomorphism & epigenetic theory. <u>Gametogenesis:-</u> Spermatogenesis/Oogenesis. Comparison. <u>Fertilization:-</u> process steps & significance	
Feb (24 days)	<u>cleavage:</u> Types; Holo, meroblastic radial, spiral & etc. Effect of yolk. <u>Early deopt of frog:-</u> structure of ovum cleavage, blastulation & gastrulation. <u>Early deopt of Hen's egg, cleavage,</u>	
March (24 days)	<u>Blastulation:</u> gastrulation origin & structure of primitive streak, structure of 24 & 48 hr chick embryos, Extra embryonic membranes. <u>Rept spleen & early deopt of human:-</u> MC & its regulation. Structure of sperm/ovum. <u>ovulation, cleavage, morula, blastocyst, placenta - classification with examples.</u>	
April (16 days)	<u>Structure & functions of placenta</u> <u>yolk sac & Allantoic placenta</u> <u>Modern trends in human reproduction:</u> <u>sperm bank, IVF, cloning, surrogate mother & multiple births - twins.</u>	

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

A. Naalakantappa
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MONTHWISE TEACHING PLAN 2018-19
(Even Semester)

Name of the Staff: Smt. PRABHAVA TI Class: B.Sc II Sem


Sub: ZOOLOGY.

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>REPTILIA:</u> General characters	
Jan-2019 (25 days)	Classification of Reptiles, Anapsida, euryapsida, parapsida, synapsida, + diapsida. orders - Rhynchocephalia, squamata, crocodylia & chelonina with examples.	
Feb (24 days)	Key for identification of poisonous & non-poisonous snakes of India, Poisonous snakes → Cobra & Hydrophis, Nonpoisonous snakes → Python, Tephlop.	
March (24 days)	<u>OSTEOLOGY of FROG:</u> <u>Axial skeleton of frog:</u> Typical vertebrae, Axis, Atlas, sternum.	
April (16 days)	<u>Appendicular skeleton of frog:</u> Pectoral girdles, pelvic girdles, Radius, Ulna, Femur, Tibia, Fibula Phalanges.	

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MONTHWISE TEACHING PLAN 2018-19


(Even Semester)


Name of the Staff: Smt. PARSHVATI Class: B.Sc IV Sem Sub: ZOOLOGY

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>NITROGEN EXCRETION:</u> Definition of excretion, nitrogen excretion in aquatic & terrestrial animals. Ammonotelism, ureotelism & uricotelism with examples.	
Jan-2019 (25 days)	Osmithine cycle. Physiology of urine formation <u>RESPIRATION:</u> External & internal respiration - Respiratory pigments: Haemoglobin, Haemocyanin & haemoerythrin. Physiology of respiration	
Feb (24 days)	Exchange of gases, transport of O ₂ , O ₂ dissociation curves - Bohr's effect, Transport of CO ₂ , chloride shift, respiratory quotient <u>IMMUNOLOGY:</u> - Definition, Immune system	
March (24 days)	General characteristic organs & cells of immune system, Bone-marrow, primary lymphoid organ - Bursa of Fabricius, Thymus, Peyer's patches - T. cells & B cells - Antigens & antigenicity.	
April (16 days)	Immunoglobulin - structure of immunoglobulin G (IgG) & immunization, AIDS - Causative factors effects & preventive measures.	

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Smt. PRABHAVATI Class: B.Sc VI Sem Sub: ZOOLOGY

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>ECOLOGY</u> :- Introduction - definitions, History Ecology spectrum.	
Jan-2019 (25 days)	Subdivision of Ecology - scope of ecology. <u>ANIMAL RELATIONSHIPS</u> :- Mutualism, commensalism, parasitism, amensalism, predation & competition with relevant examples. <u>POPULATION ECOLOGY</u> :- Population density, natality, mortality, age distribution, population growth rate, population growth curves, biotic potenti- al - Allee's principle & Gause's principle.	
Feb (24 days)	<u>COMMUNITY ECOLOGY</u> :- Community structure, ecological stratification ecotone & edge effect, Ecological Niche.	
March (24 days)	<u>ABIOTIC FACTORS</u> :- Light - effect of light on animals, Temperature- thermal stratification - effect of temperature on animals, Adaptations to extreme tempera- ture. <u>ENVIRONMENT POLLUTION</u> :- Definition, pollutants & types of pollution - Air, water & soil pollution - Source, effect & control.	
April (16 days)	<u>ZOOGEOGRAPHICAL REALMS</u> :- Zoogeographical realms (with subdivi- sion) of world, with climatic conditio- ns & examples of characteristics fauna - brief account of Wallace's line	

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester) *Biotechnology*

Name of the Staff: *Baburajeshwar* Class: *B.Sc I Sem.* Sub: *cell biology*
(14/12/2018)

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<i>cell theory.</i>	
July (26 days)	<i>cell organelles.</i>	
Aug (25 days)	<i>mutation, metabolism, cell cycle</i>	
Sept (23 days)	<i>Chromatogenesis, Allozymomal & autosomal disorders.</i>	
Oct (22 days)	<i>sex determinator</i>	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Smt. mangala prade* Class: *B.Sc III Sem*

Sub: *microbiology & Immunology*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	1) History & scope of microbiology 2) microscopy 3) History & scope of Immunology	
July (26 days)	4) Sterilization 5) Stains & staining techniques 6) Immunity 7) Antigens	
Aug (25 days)	8) culturing of microorganisms 9) microbial growth 10) Antibodies	
Sept (23 days)	11) Antigen - Antibody reactions 12) Humoral & cell mediated immunity 13) Allergy: Types of allergy	
Oct (22 days)		

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018

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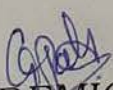


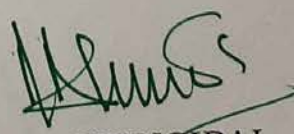
MONTHWISE TEACHING PLAN 2018-19
(Odd Semester)

Name of the Staff: Smt. mangala Class: B.Sc. V Sem. Sub: Genetic Engineering

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	1) Introduction to Genetic Engineering 2) Tools of Genetic Engineering	
July (26 days)	3) Gene cloning 4) Detection of clones	
Aug (25 days)	5) Gene Library 6) r-DNA technology for human welfare.	
Sept (23 days)	7) Human genome project & its implication 8) Biosafety: Rules & regulation of formation handling & response to genetically modified organisms	
Oct (22 days)		

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

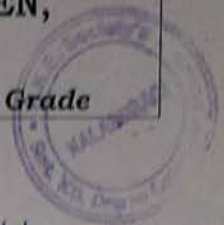

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Biotechnology

Name of the Staff: Balawaryu Class: B.Sc V Sem.

Sub: Plant & Animal

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Plant tissue culture	
July (26 days)	Animal cell culture, callus culture Animal tissue culture.	
Aug (25 days)	Embryo culture, micropropagation	
Sept (23 days)	Protoplast isolation & fusion Somatic hybridization in crop improvement. IVF, marker studies mono plants.	
Oct (22 days)	In vitro haploid production & their application. Somatic variations. plant secondary metabolites.	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Dr. Shivareg Class: B.Sc. VIth Sem (6.2) Sub: CHEMISTRY

Month (Working Days)	Mulagi Syllabus to be covered	Remarks
Dec-2018 (08 days)	1) <u>Oils, fats & waxes</u> : - Composition of oils, fats & waxes. Analysis of fats & oils. Determination of acid value, iodine value, Saponification value & their importance.	
Jan-2019 (25 days)	Manufacture of Soaps by Modern Continuous process. Types of Soaps & Syndets. Manufacture of Sodium lauryl sulphate & Sod. β -diethylbenzene Sulphonate. Merits & Demerits of Syndets over Soaps. Cleansing action of Soap & Syndet.	
Feb (24 days)	2) <u>Synthetic Dyes & Drugs</u> : - <u>Dyes</u> : - Colour & Constitution, chromophore theory, electronic concept, classification of dyes based on composition & application. Chemistry & Synthesis of Methyl orange, Congo red, Malachite green, Crystal violet, phenolphthalein, fluorescein, alizarin & indigo. <u>Drugs</u> : - Elementary account of chemotherapy & chemotherapeutic agents - antimalarials, Sulpha drugs & antibiotics. Mechanism of drug action. Synthesis and chemistry of chloramine-T, Sulpha-thiazole, chloroquin & Sulphanilamide.	
March (24 days)	3) <u>Synthetic Polymer</u> : - Addition chain growth polymer, Free radical, Vinyl polymer, ionic vinyl, Ziegler-Natta polymer & Vinyl Polymers. Condensation or step-growth polymer. Polyesters, polyamides, phenol formaldehyde resins, Urea formaldehyde resins, epoxy resins & Polyurethanes. Natural & Synthetic polymers:-	
April (16 days)	4) <u>Organic Synthesis via Enolates</u> : - Acidity of α -hydrogens, alkylation of diethyl malonate & ethyl acetoacetate. Synthesis of ethyl acetoacetate, Claisen condensation (mechanism) Keto-enol tautomerism of ethyl acetoacetate, alkylation & acylation of enamines.	

Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

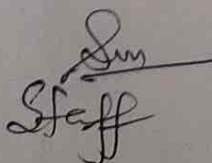
(Even Semester)

Name of the Staff: Dr. Shivaraj Mulagi Class: B.Sc. IVth Sem. Sub: CHEMISTRY

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>1 Nuclear Chemistry</u> - Nuclear Stability, n/p ratio and binding energy, Radioactive decay series.	
Jan-2019 (25 days)	Radioactive equilibrium, artificial transmutation of elements using protons, neutrons and their relative efficiency as projectiles, induced radioactivity, radioactive isotopes, and their uses in studying the mechanism of reactions.	
Feb (24 days)	<u>2 d-Block elements</u> : - General characteristics of transition states with respect to Electronic Configuration & Atomic Size of 3d series elements.	
March (24 days)	Ionisation potential, variable oxidation states, magnetic properties, colour & Spectra explanation with respect to 3d series elements. <u>3-f-Block elements</u> : - Lanthanide series: Electronic Configuration, Oxidation State	
April (16 days)	Colour & Spectra, magnetic properties, Lanthanide contraction. Separation of lanthanides by ion exchange process.	


Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Dr. Parveen R. Class: B.Sc. II sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Unit III - Arenes and aromaticity. Nomenclature of benzene derivative	
Jan-2019 (25 days)	Unit III - Arenes and Aromaticity Modern concept of structure of benzene, Huckel's rule, Aromatic ESR - role of σ & π complexes mechanism of nitration,	
Feb (24 days)	halogenation, sulphonation, Energy profile diagrams. Activating & deactivating substituents. Rules of orientation, orienting influence of substituents.	
March (24 days)	chain oxidation reactions of benzene, Birch reductions. Unit IV - Aromatic nitro compounds	
April (16 days)	Preparation of aromatic nitro compounds, reduction of nitrobenzene in acid, alkalis and neutral medium. Electrophilic & nucleophilic reactions of nitrobenzene.	

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Dr. Parveen R Class: B.Sc. VI 6-1 Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Industrial chemistry: a) Electroplating - Principles & Practices	
Jan-2019 (25 days)	Electroplating of Ni, Co & Au Glass: - Raw materials, manufacture, types of glasses their composition & uses.	
Feb (24 days)	Cement: - Raw materials, manufacture of cement by dry process, mechanisms of setting of cement	
March (24 days)	Metallurgy: - Extraction of uranium from Pitch blends & extraction of thorium from monazite sand	
April (16 days)	Principles of gravimetric analysis Rules of conditions of precipitation Purification of precipitates Types of precipitate, co & post precipitation, effect of pH, temp, digestion, filtration, washing, drying & ignition.	

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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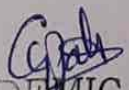
MONTHWISE TEACHING PLAN 2018-19

(Even Semester)


Name of the Staff: Dr. Parveen R. Class: B.Sc. IV sem Sub: Chemistry

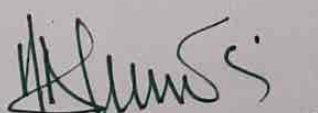
Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Aldehydes & Ketones Synthesis, structure, reactivity & properties of carbonyl group	
Jan-2019 (25 days)	Nucleophilic addition reactions - Benzoin, Aldol, Perkin's, Cannizzaro, Knoevenagel, Mannich, Chemmergen, Wolf-Kishner, LiAlH ₄ & NaBH ₄ , Halogenation	
Feb (24 days)	Aliphatic carboxylic acids & their derivatives:- Synthesis, reactions, acidity of carboxylic acids, effect of substituents on the acid.	
March (24 days)	Hell-Volhard-Zelinsky reaction. Reductions of carboxylic acids. Synthesis & properties of acid chlorides, esters & amides. Stereochemistry	
April (16 days)	Optical isomerism: chirality, Le Bel-van't Hoff's hypothesis. D & L, R & S notations. Racemisation, Geometrical isomerism, E-Z system, Beckmann rearrangement.	

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Shaila H.K Class: B.Sc VI Sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Colligative properties</u> :- Semipermeable membrane, natural & artificial semipermeable membrane, example preparation of copper ferrocyanide semi permeable membrane.	
Jan-2019 (25 days)	osmosis, osmotic pressure its determination by Berkeley & Hauley method. Theory of dilute solution. laws of osmotic pressure molar mass from osmotic pressure measurements	
Feb (24 days)	Isotonic sol ⁿ Relative lowering of V.P. Raoult's law & its derivation. Relation between relative lowering of VP & molar mass. Ostwald's method of determination	
March (24 days)	of relative lowering of vapour pressure. Elevation of BP & its relationship to be lowering of VP & molar mass. Ebullioscopic constant K_b of the solvent & its relation to the BP & enthalpy of vaporisation of the solvent determination of molar mass by K_b	
April (16 days)	Depression of FP & its relation to the lowering of VP & molar mass. K_f of solvent & its relation the fp & enthalpy of fusion of the solvent. Experimental determination of molar mass by cryoscopic method. Abnormal molar mass	Vant Hoff factor

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)


Name of the Staff: Shaila H.K. Class: B.Sc Ist Sem Sub: Chemistry

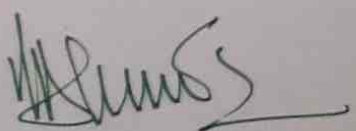
Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Introduction</u> :- Role of analytical chemistry <u>Classification</u> of analytical methods - classical & instrumental. Types. Neutrons & cleanliness.	
Jan-2019 (25 days)	Laboratory operation & practices. Analytical balance. Techniques of weighing, errors, volumetric glass ware - cleaning & calibration of glass ware sample preparation, dissolution & decomposition	
Feb (24 days)	Principles of gravimetric analysis in brief Safety in the analytical laboratory. <u>Errors & Evaluation</u> :- Definition of terms in mean & median, precision, standard deviation, relative standard deviation	
March (24 days)	Accuracy, absolute error, Relative error Types of errors in experimental data. Determination and indeterminate error & gross Sources of errors & their effects upon the analytical results.	
April (16 days)	Methods of reporting analytical data. Statistical evaluation of data. Indeterminate errors. The use of statistics.	

Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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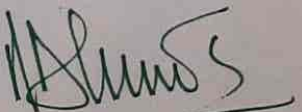
Name of the Staff: Chandrakala D Class: BISC IV sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Thermodynamics-II :- Second law of thermodynamics, need for law, different statements of Second law,	
Jan-2019 (25 days)	Carnot's cycle and its efficiency. Entropy Concept as state function, entropy change of an ideal gas with change in volume and temperature, pressure and temperature.	
Feb (24 days)	Helmholtz and Gibbs free energy and their relationship. Numericals. *) Spectroscopy: Introduction, electromagnetic regions of spectrum, (*) Rotational spectrum	
March (24 days)	diatomic molecule, selection rule, spectral intensity, Determination of bond length. *) vibrational spectrum: IR spectra, energy level of SHO, Effect of an harmonic motion Raman spectra of diatomic molecules.	
April (16 days)	*) Electronic Spectra: - Concept of potential energy curves for bonding and antibonding molecular orbitals. Frank-Condon principle, qualitative description of σ , π and 'n' molecular orbitals.	

Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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(Even Semester)

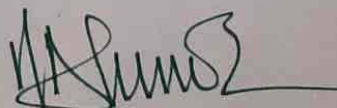
Name of the Staff: Chandrakala. Class: B.Sc. II Sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	1) <u>Nerst distribution law</u> :- statement and derivation modification of law when solute associates and dissociation in one of the solvents. Application of law to solvent extraction process.	
Jan-2019 (25 days)	2) <u>Phase equilibrium</u> :- phase rule, definition and explanation of terms involved, Application to one Component system [eg. water and Sulphur system], and two Component system (lead-silver) system and, KI-water system].	
Feb (24 days)	Freezing mixtures. 3) <u>Liquid mixture</u> :- Different types with examples, Binary mixtures; Completely miscible	
March (24 days)	liquid-type with examples. Raoult's law of vapour, principles of fractional distillation. Azeotropic mixture critical solution temperature with respect to phenol-water, nicotine-water system.	
April (16 days)		

Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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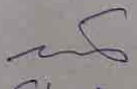
(Even Semester)


Name of the Staff: Dr. Parvathi Class: BSc VI 6-1 Sub: Chemistry


Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	1) <u>Amines</u> classification. Separation of amines, ST apparatus	
Jan-2019 (25 days)	1) <u>Nitriles</u> , air water of aldehyde & ketone compounds epoxide phthalide reactions, diazonium reactions Electrophilic substitution reactions aryl diazonium reactions 2) <u>Amino acids</u> - peptides, proteins	
Feb (24 days)	<u>Amino acids</u> , classification. Phthalimide method ester. Structure & zwitter ions isoelectric point	
March (24 days)	<u>Peptides</u> nomenclature, group analysis, classification, synthesis <u>Proteins</u> classification, primary secondary ST of proteins, denaturation, renaturation (B) <u>enzymes</u> - nomenclature, classification, biocatalytic factors, Equations, enzymatic reactions, Michaelis menten equations	
April (16 days)		

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: *A. Parvathi* Class: *B.Sc. VI 6.2* Sub: *Chemistry*

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)		
Jan-2019 (25 days)	<i>Water pollution, types of water pollutants, biochemical oxygen demand, industrial effluents. Water pollutants in environments.</i>	
Feb (24 days)	<i>2. Analysis of water pollutants. Organic, Parameters, acidity alkalinity hardness, Chlorine, fluoride, nitrate, phosphate, nitrogen sulphate, H_2S, SO_2, CO_2.</i>	
March (24 days)	<i>Particulates, 3) Analysis of soil. aspects of soil, moisture, silica line, magnesium, sulphur, electrical conductivity. Different methods of fractions. 4) Waste & their management, organic wastes, water pollutants, industrial effluents, soil, radioactive waste, degradation.</i>	
April (16 days)		

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: *Dr. Parvathi P* Class: *B.Sc. V Sem*

Sub: *chemistry*

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)		
Jan-2019 (25 days)		
Feb (24 days)	<i>Electromotive force galvanic cell, electrode reactions. B.M.F. calibration of electrode S.C.E. reference electrode.</i>	
March (24 days)	<i>hydrogen electrode, silver-silver chloride electrode applications B.M.F. measurements potentiometric titrations, standardization titrations Redox titrations</i>	
April (16 days)		

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Dr. Shivaram Class: B.Sc Vth Sem (5.1) Sub: CHEMISTRY

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Organic Chemistry</u> 1. <u>Heterocyclic Compounds</u> : - molecular orbital picture and aromatic character of pyrrole, furan, thiophene and pyridine. Methods of formation and reactions of pyrrole, furan, thiophene and pyridine. Comp. of bases of	
July (26 days)	pyrrole, pyridine and piperidine. Condensed 5 & 6 membered heterocycles - prepn & reaction of indole & quinoline - Fischer indole synthesis and Skraup synthesis.	
Aug (25 days)	2. <u>Organometallic Compds</u> Grignard reagent: - prepn, reaction, structure. <u>organozinc Compds</u> : - formation and chemical reactions <u>organolithium Compds</u> formation & chemical reactions.	
Sept (23 days)	3. <u>organosulphur Compds</u> : - Nomenclature, structural features, methods of prepn & chemical reactions of Thiols, Thioesters, Sulphonic acids, Sulphonamides & Sulphaguanidine.	
Oct (22 days)	4) <u>Spectroscopy of organic Compds</u> : - UV Spectroscopy - principle & measurement, electronic excitation, simple chromophoric groups. Conjugated system, extended conjugation, aromatic system effects of CH_3CHO & CH_3CO & CH_3COCH_3 & $\text{CH}_3\text{COCH}_2\text{CH}_3$ <u>Infrared Spectroscopy</u> : - Molecular vibrations principle & measurements, absorption of common functional groups - NH_2 , NH , OH , $\text{C}=\text{N}$, $\text{C}\equiv\text{N}$, $\text{C}=\text{O}$, COOR , fingerprint regions. <u>Problems on UV & IR.</u>	

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 4. Closing Day : 02.11.2018

ACADEMIC COORDINATOR
 Staff

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 ಕ್ರೀಡಾ ವಿಭಾಗ, ಗಂಗಾಸಿರಿ ಮಹಿಳಾ
 ಮಹಾವಿದ್ಯಾಲಯ, ಕಲಬುರಗಿ



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MONTHWISE TEACHING PLAN 2018 - 2019

(Odd Semester)

CLASS: B.Sc I Sem NAME OF THE STAFF: Sapna + Smita

SUB: Advance C

MONTH (WORKING DAYS)	SYLLABUS TO BE COVERED	REMARKS
July	Introduction to digital computers, block diagram, explanation of each unit, ALU, CU, memory, input output unit. C programming :- Algorithm & flow chart, structure of C, constants, variables & data types, operators & expression	
Aug	Number system, boolean algebra, basic logic gates and universal gates, Basic expressions. executing a C program, data types, relational operators logical operators	
Sep	Input, output function, formatted input & output Decision making with if statement, simple if, else if statement, nesting if else statements, the goto statement, while, do while loop, for, jumps one dimensional, two dimensional & multi dimensional array	
Oct	word processing, features of word processing, menus commands tool bar, buttons, formatting, creating, saving & printing a document, setting tables.	

Smita
Sapna
STAFF

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MONTHWISE TEACHING PLAN 2018 - 2019
 (Odd Semester)

CLASS: B.c III

NAME OF THE STAFF: Premila S Toran

SUB: BAD & COBOL

MONTH (WORKING DAYS)	SYLLABUS TO BE COVERED	REMARKS
July	Information & Management: - Introduction, Types, Management, Str, Requirements, Quality of inform ⁿ , Examples. Information system Analysis: Role, test & attributes, tools Information gathering, Feasibility Analysis.	
Aug	Inf ⁿ System Analysis: - DFD, Process specification & decision table, data i/p methods, Test, implementation of information system, most changeable systems, tasks.	
Sep	Implementation of inf ⁿ system: - strategies, system testing, quality control, COBA	
Oct	Data processing Through COBOL	

Savita
For Savita
 STAFF

Gopal
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MONTHWISE TEACHING PLAN (Odd Semester)

Academic Year: 2018-19 Class: B.Sc - III Subject: SAD & COBOL

Sl. No	Month (Working Days)	Topics to be Covered	Rem
1	July	Information & Management :- Introduction, Types, Management Structure, Requirements, Quality of Inf. Examples, Information System Analysis! Role, task & attributes, tools. Information gathering, Feasibility Analysis	
2	August	Inf. System Analysis :- DFD, Process specifications & decision table, data I/P methods, Test, Implementation to Inf. system. most changeable systems, tasks.	
3	September	Implementation of Inf. system :- strategies, system testing, quality control, COBOL	
4	October	Data processing Through COBOL :-	

For Staff

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MONTHWISE TEACHING PLAN 2018 - 2019

(Odd Semester)

CLASS: B. SC Ist Sem NAME OF THE STAFF: Jagdevi A

SUB: C++

MONTH (WORKING DAYS)	SYLLABUS TO BE COVERED	REMARKS
July 14	unit I : Overview of oop unit II : Modulation programming with functions unit III : Classes	
Aug 19	unit III : Objects unit IV : Operator Overloading unit V : Inheritance	
Sep 14	unit V : Continuation unit VI : virtual functions and polymorphism unit VII : Templates	
Oct 9	unit VIII : Exception Handling unit VIII : streams Test	

For Jagdevi A
 STAFF

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MONTHWISE TEACHING PLAN 2018 - 2019

CLASS: B.sc \hat{y}

(Odd Semester)

NAME OF THE STAFF: *Smt. Premila S. Soran*

SUB: DBMS

MONTH (WORKING DAYS)	SYLLABUS TO BE COVERED	REMARKS
July	Introduction : Data DB , characteristics, uses, advantages , disadvantages , implication, data models DBMS architecture , data independence, language and interface & classification	
Aug	SQL : Introduction , data types , basic queries with syntax & examples ER-models & introduction, sql commands	
Sep	High level conceptual data models for DB design Entity , set, notations , proper naming , relational model , relational algebra , calculus update Normal forms	
Oct	Program Explanation Revision of Normal forms -	

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STAFF

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MONTH WISE TEACHING PLAN 2018-19

(Odd Semester)

Staff: DR.R.B.KONDA

Class: B Sc I Sem

Sub: Electronics

Paper: I.1: : FUNDAMENTALS OF ELECTRONICS

Month	Syllabus to be covered	Remarks
June (25 days)	UNIT-I: AC CIRCUITS: Representation of AC, sine wave cycle, time period, frequency, average value, peak value (amplitude), peak to peak, rms value, phase and phase difference, power factor. Form factor, phasor diagram complex number j-operator reactance and impedance. RL, series and RC series circuits, RLC circuits: series and parallel-impedance curve, selectivity,band width Q-factor (loaded and un loaded Q) comparison between series RLC and parallel RLC circuits. Series resonance-condition for resonance, resonant frequency, half power frequencies, band width quality factor (loaded and un loaded Q),comparison and application.	
July (25 days)	Circuit analysis: Current and voltage source: Ideal and real voltage and current source. DC resistive circuits: Voltage and current divider theorems open and short circuits, Kirchhoff's laws mesh analysis and voltage and node voltage method	
AUG (25 Days)	UNIT-III:Networktheorems: T and pi network, inter conversion, superposition theorem. Thevenin theorem Norton's theorem, maximum power transfer theorem, reciprocity theorem and Milliman's theorem.	
SEPT (25 Days)	UNIT-IV: Semiconductor devices: Construction, working, Characteristics curves : P-N junction diode, Zener diode, Tunnel diode, Schottky diode, Photo diode, Varactor diode, LED and Alpha numerical display and LCD. Bi-Polar and Uni-polar Junction Devices (Construction, working characteristics curves and applications) : Transistor- NPN/PNP-working CB,CE and CC mode, current gain alpha, beta, gamma relations-input and output characteristics of CB and CE configuration leaking current. UJT, FET and MOSFET-Enhancement type and depletion type FET as a voltage resistor, UJT relaxation oscillator.	

R.B.Konda

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Coordinator



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2018-2019
MONTHWISE TEACHING PLAN ~~2018-19~~

(Odd Semester)

Class: B Sc III Sem

Name of the Staff: Dr Mallikarjun Chickpatil

Sub: Electronic Circuits

Month (Working Days)	Syllabus to be covered	Remarks
July (25 days)	UNIT- I : Wave shaping circuits :06 Linear wave shaping Integrator and differentiator (RC and RL) Non liner waves shaping- positive negative biased clippers and clampers	
Aug (25 days)	UNIT-II : Feed back in amplifiers and wave form generators15 Basic concepts of feedback in amplifiers, positive and negative feedback in Amplifiers, effect of negative feedback on amplifier characteristics. Basic principle of oscillators- tank circuit - Barkhausen criteria-LC oscillator - Hartley and Colpitt's-RC oscillators-phase shift oscillators- Wienbridge and crystal oscillators using transistors. Types of multivibrators – astable, monostable, bistable and Schmitt trigger.	
Sept (25 Days)	UNIT-III: Operational amplifiers and applications 15 Differential amplifier, modes of operation of differential amplifier, Op-Amp – Block Diagram, parameters. Op-Amp with negative feedback, effect of negative feedback on Op-Amp characteristics, bias current and offset voltage compensation. Applications: Op-amp as non-inverting, inverting amplifier. Adder, sign changer, scale changer and difference amplifier, V to I converter and vice versa, Integrator, Differentiator, Logarithmic and antilogarithmic amplifiers.	
Oct (25 Days)	UNIT-IV : Waveform generators12 Comparator, Schmitt trigger, astable, monostable and bistable multivibrators. Phase shift oscillator, Wein bridge oscillator, triangular and Ramp wave generator. Active filters: Low pas high-pass, band pass, band-elimination filters and all pass filters (Expression for cut off frequency and pass band gain). UNIT-V: Timer 12 IC timer 555: Block diagram, astable, monostable, bistable multivibrators, Schmitts trigger using timer. Question paper solving	

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MONTH WISE TEACHING PLAN 2018-19

(Odd Semester)



Staff: Sri. Y.N.Ravindra

Class: B Sc V Sem

Sub: Electronics

Paper: 5.1: COMMUNICATION ELECTRONICS- I

Month	Syllabus to be covered	Remarks
June (25 days)	UNIT I: Transmission lines and Antennas: Type of transmission lines, Distributed parameters of T-line, T- line equation, characteristics impedance, propagation constant, frequency and phase distortion. Condition for distortion less T- line and standing waves. Antenna parameters, Dipole antenna, radiation resistance, power radiated by dipole antenna, TV receiver antenna requirements, resonant antenna, yagi antenna.	
July (25 days)	UNIT -II: Modulation Techniques: Need for modulation, Amplitude modulation, expression for AM waves, modulation index, frequency spectrum, power relations, modulator circuits, plate modulators, emitter modulator, base and collector modulator, various SSB schemes. Balanced modulators. Frequency modulation-expression for FM waves, modulation index, varactor diode modulation and FET (or transistor) reactance modulator, AM and FM transmitters (block diagram only) comparison of AM and FM, Phase modulation (qualitative analysis).	
AUG (25 Days)	UNIT - III: Demodulation: AM diode detector, AGC, practical diode detector circuits, square law detector, FM detectors, slope detectors, foster-seeley discriminator, ratio detector.	
SEPT (25 Days)	UNIT - IV: Radio Receivers: Receiver Characteristics: AM receiver, TRF receiver, super heterodyne receiver for AM and FM, FCC restrictions, noise in electronic circuits	

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MONTH WISE TEACHING PLAN 2018-19

(ODD Semester)



Staff: Dr. Rajendra B.Konda

Class: B Sc IV Sem Sub: Electronics Paper: 5.2: DIGITAL ELECTRONICS AND
MICROPROCESSOR

Month	Syllabus to be covered	Remarks
OCT (09 days)	UNIT - I: Data selectors and signal converters: Multiplexers, Demultiplexers, Data converters- D to A converters- Binary weighted resistors network, R-2R ladder network and A to D converter – dual slope integrating type, successive approximation method. Flash converters, resolution and accuracy for above converters.	15
NOV (22 days)	UNIT – II: Memory device: Introduction to primary and secondary memories. RAM – static and dynamic. ROM, EPROM, EEPROM, CCDs, RAM array diode matrix.	10
DEC (26 Days)	UNIT – III: 8085 Microprocessor: 8085-based microcomputer system: The 8085 MPU, Architecture and Pin configuration, Instruction and timings: Instruction classification, Instruction format, Instruction timings and operation status, Instruction set, Addressing modes and groups. Instruction cycle. Memory mapped I/O and I/O mapped memory.	15
JAN (24 Days)	UNIT – IV: Programming 8085: Data transfer instruction, Arithmetic operation, Logic operation, branch operations, writing assembly language programs. Stacks, subroutines and interrupts in Intel 8085	10
FEB (09 Days)	UNIT – V: Interfacing 8085: Interfacing : Need of interfacing devices, parallel and series interfaces, PPI 8255, USART 8251, Key board display interface 8279, DMA controller 8237, PIT 8253, A/D converter and D/A converter interfacing, 7-segment display interfacing.	10

Staff Signature

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Coordinator*

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Sudharani M Class: B.Sc I Sem Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Recapitulation of matrix algebra, rank of a matrix, Elementary operations, Invariance of rank under elementary operations.	
July (26 days)	Echelon form & Normal form of a matrix, inverse of a matrix, System of m-linear Equation in n-unknowns.	
Aug (25 days)	matrices associated with linear Eq ⁿ , Criterion for existence of non-trivial solution of homogeneous & non-homogeneous system.	
Sept (23 days)	Criterion for uniqueness Solutions. Eigen values & Eigenvectors of a square matrix. Cayley-Hamilton theorem - Application	
Oct (22 days)	Revision	

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Paper - 3.1

Name of the Staff: Sudharani M Class: B.Sc III Sem Sub: mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Recapitulation of vector algebra, vector triple product product of four vectors, Reciprocal vectors.	
July (26 days)	Cartesian co-ordinates in three-dimensional space. Relation bet ⁿ Cartesian co-ordinates & position vectors. Distance & division formulæ (In vector & cartesian form). Direction cosines	
Aug (25 days)	of a line, direction ratios of the two points. Projection on a straight line, angle bet ⁿ two lines. Area of a triangle & volume of a tetrahedron with given vertices	
Sept (23 days)	Eq ⁿ of plane in the form $i) (\vec{r}-\vec{a}) \cdot \vec{n} = 0$ $2) \vec{r} = \vec{c} + t\vec{a} + m\vec{b}$ $3) [\vec{r}-\vec{a}, \vec{b}-\vec{a}, \vec{c}-\vec{a}] = 0$ & their cartesian equivalent plane through three points. Angle bet ⁿ planes. Eq ⁿ of plane in the form $i) \vec{r} = \vec{a} + \vec{b}$ $2) \vec{r} = [1-t]\vec{a} + t\vec{b}$ & their equivalent cartesian forms.	
Oct (22 days)	Angle bet ⁿ line & plane, condition for a plane lies on plane, plane coaxial with given planes, Eq ⁿ of the line of intersection of two planes. 1 st distance of a point from a line & plane, planes bisecting the angle, co-planarity, Shortest distance bet ⁿ two lines (vector & cartesian form)	

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

paper (5.1)

Name of the Staff: Sudharani M Class: B.Sc V Sem

Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Scalar field, gradient of a scalar field, geometrical meaning, directional derivatives, vector field, div & curl of a vector field	
July (26 days)	Solenoidal & irrotational fields, Laplacian of scalar field, vector identities. Expression for $\nabla\phi$, div f & curl f in orthogonal curvilinear & specialisation to Cartesian, cylindrical & spherical co-ordinates. Green's, Gauss & Stoke's theorems & simple examples on it.	
Aug (25 days)	Potential & basic properties of Laplace transform, d.T of some common functions, d.T of derivatives & the integral of a function. d.T of Heaviside & Dirac delta function.	
Sept (23 days)	convolution theorem, Inverse d.T : Applications of ordinary linear differential equation of first & second order with constant coefficients.	
Oct (22 days)	periodic functions. Fourier series of a function with period 2π & period $2L$. Half range cosine & sine series.	

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MONTHWISE TEACHING PLAN 2018-19

Dr. Veena PH
 Name of the Staff:

(Odd Semester)

Paper Algebra I

Class: Bsc I Sem

Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Theory of eqns startal. Rel ⁿ bet ⁿ the roots and the co- effs of gene ral poly. equ ⁿ in one variable.	
July (26 days)	(only Biquadratic equ ⁿ s) Synthetic division, Transformation of eq ⁿ s i) increasing and decreasing the roots by quantity 'h'.	
Aug (25 days)	ii) To multiply the roots of the eq ⁿ by a given quantity m- pro blems on it. iii) Transform an eq ⁿ into another whose roots are the reciprocals of the roots of the given eq ⁿ .	
Sept (23 days)	Descartes' rule of signs, sol ⁿ of Cubic eq ⁿ by Cardans method of the type $ax^3+bx^2+cx+d=0$, and $px^3+qx^2+r=0$ and sol ⁿ of std cubic eq ⁿ by trigonometric method. sol ⁿ of biquadratic eq ⁿ by Descartes method. Simple problems	
Oct (22 days)	Complex numbers. Demovers thm with proof and some examples on it. Roots of complex nos and sol ⁿ of eq ⁿ s.	
	Revision with sol ⁿ of Q. P	

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MONTHWISE TEACHING PLAN 2018-19

Dr. Vaena P.H.
 Name of the Staff:

(Odd Semester)
 Class: B. & III sem

Paper: 3.2
 Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	ch-3. Differential Calculus - Mean value theorems, Roll's theorem	
July (26 days)	Lagrange's mean value theorem, Cauchy's mean value theorem, Taylor's theorem & MacLaurin's exp. Indeterminate form. L'Hospital rule. Riemann Integration:- Real no ^s system Absolute value of real no ^s , Boundedness of subsets of real no ^s .	
Aug (25 days)	Partition of a closed interval, upper & lower Riemann sums & integrals, Riemann Integral, Algebra of integrable functions, integrability of continuous & monotonic functions.	
Sept (23 days)	Fundamental theorems of integral calculus, integration by change of variable, integration by parts, mean value theorem. Line & multiple integrals:- line integral over a plane curve & space curve, indepe- ndent of path of integration, double integral.	
Oct (22 days)	Evaluation of double integral, change of order of integration, surface area, triple integral, differentiation under the integral sign - Leibnitz's rule Revision.	

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4. Closing Day
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MONTHWISE TEACHING PLAN 2018-19

Dr. Veena P.H.
 Name of the Staff:

(Odd Semester)

Class: B.Sc V sem

Paper: 5-2

Sub: Mathematics

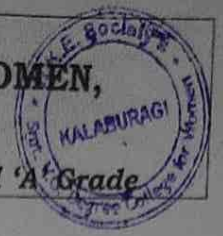
Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Total differential eqn ⁿ :- Necessary condition for the eqn ⁿ $Pdx + Qdy + Rdz = 0$ to integral - problem.	
July (26 days)	Solution of eqn ⁿ of the form $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$. Partial diff. eqn ⁿ :- Formation of PDE, Lagrange's linear eqn ^m $pp + qq = R$.	
Aug (25 days)	Standard types of first order linear partial diff eqn ⁿ & eqn ⁿ reducible to standard form, Charpit's method, Series sol ⁿ :- Legendre diff eqn ⁿ , Legendre polynomials, $P_n(x)$ as a sol ⁿ .	
Sept (23 days)	Rodrigue's formula, generating poly theorem, orthogonal property & basic recurrence rel ^m . Bessel diff eqn ⁿ . Bessel funct ⁿ $J_n(x)$ as sol ⁿ .	
Oct (22 days)	generation formula - integral formula for $J_n(x)$: orthogonal property, Basic recurrence rel ^m problem.	

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MONTHWISE TEACHING PLAN 2018-19

Dr. Veena P. H.
 Name of the Staff:

(Odd Semester)

Graph Theory
 Paper 5.3

Class: Bsc V Semester Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	II half of 5.3 paper - subgraph def ⁿ , graph def ⁿ with graph with many examples on simple graphs	
July (26 days)	disjoint subgraph, def ⁿ of walk and examples on it. Def ⁿ of trail and examples induced subgraph	
Aug (25 days)	spanning subgraph, disjoint cycles, path, cycle and circuit examples on it. connected and disconnected graphs. components. Thms on subgraphs	
Sept (23 days)	Weighted graphs: def ⁿ and some simple thms with proof. Examples on it. Shortest path. path problems. Dijkstra's algorithm for finding of shortest path	
Oct (22 days)	Matrix representation: incidence matrix, Adjacency matrix. representation of connected and disconnected graph using matrix method.	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

ACADEMIC COORDINATOR

Dr. Veena P.H.
 M.Sc, Ph.D.
 Professor & H.O.D.
 Dept. of Mathematics,
 Smt. V.G. Women's Cr. College,
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Dr. Shivaram Class: BSc Vth Sem (5-1) Sub: CHEMISTRY

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Organic Chemistry</u> 1. <u>Heterocyclic Compounds</u> : - molecular orbital picture and aromatic character of pyrrole, furan, thiophene and pyridine. Methods of forms and reactions of pyrrole, furan, thiophene and pyridine. Comp. of basicity of pyrrole, pyridine and piperidine.	
July (26 days)	Condensed 5 & 6 membered heterocycles - prep ⁿ & react ⁿ of indole & quinoline - Fischer indole synthesis and Skraup synthesis. 2. <u>Organometallic Compds</u> Grignard reagent: - prep ⁿ , react ⁿ , Structure.	
Aug (25 days)	<u>organozinc Compds</u> : - formation and chemical reactions <u>organolithium Compds</u> : forms & chemical reactions. 3. <u>organosulphur Compds</u> : - Nomenclature, structural features, methods of prep ⁿ & chemical reactions of Thiols, Thioesters, Sulphonic acids, Sulphonamides & Sulphaguanidine.	
Sept (23 days)	4) <u>Spectroscopy of Organic Compds</u> : - UV Spectroscopy - principle & measurement, electronic excitation, Simple chromophoric groups, conjugated system, extended conjugation, aromatic system C_6H_6 & C_6H_6O & $C_6H_5CO_2H$ & $C_6H_5CO_2R$	
Oct (22 days)	<u>Infrared Spectroscopy</u> : - Molecular vibrations principle & measurements, absorption of common fun grps - NH_2 , NH , OH , $C=N$, $C\equiv N$, $>C=O$, $COOR$, fingerprint region. <u>Problems on UV & IR</u> .	

- Note: 1. Opening Day : 01.06.2018
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3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Dr. Shivraj M. Class: BSc Vth Sem (5.2) Sub: CHEMISTRY

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Inorganic Chemistry</u> 1. <u>Coordination Compds</u> : Complex salt & double salt, Werner's theory of Complex, Sidwick's theory of EAN, Types of Ligands:- Mono- & polydentate ligands. Ambidentate ligands.	
July (26 days)	Factors affecting the stability of Complexes. Nomenclature & Geometrical isomerism of C.N. 4 & 6. 2. <u>Bonding in coordination Compds</u> :- VBT: Pauling assumption, inner & outer orbital complex. Form of complex $[Cu(NH_3)_4]^{2+}$ $[Ni(CN)_4]^{2-}$ $[Ni(CO)_4]^0$ $[Fe(CN)_6]^{4-}$ $[Co(NH_3)_6]^{3+}$	
Aug (25 days)	3. <u>Crystal field Theory (CFT)</u> :- Important features. Splitting of d-orbitals in tetrahedral & octahedral complexes. Low & high spin complexes. Expn of CFSE & its calculation for d^3 , d^4 & d^7 ions in octahedral complex. Factors affecting the magnitude of $10Dq$ or Δ_o .	
Sept (23 days)	4. <u>Organic reagents in Inorganic analysis</u> :- Introduction, Significance of organic reagents, preparation, properties and structure of DMG, EDTA, Oxine and o-phenanthroline. Applications of each of the above reagent in inorganic qualitative and quantitative analysis.	
Oct (22 days)		

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3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018

Dr. Shivraj M.
ACADEMIC COORDINATOR

Dr. Shivraj M.
Staff

Dr. Shivraj M.
HEAD
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Dr. Shivraj M.
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MONTHWISE TEACHING PLAN 2018-19


(Odd Semester)


Name of the Staff: Dr. Jaishree G.B Class: BSc III Sem

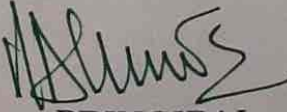
Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	1. <u>Alcohols</u> : classification with examples, Monohydric alcohols, classification & nomenclature, General methods of prep ⁿ of monohydric alcohols, Action of <u>oxigenated</u>	
July (26 days)	reagents on carbonyl comp ^s , hydration of alkenes. Reactions of monohydric alcohols, hydrogen bonding in alcohols, mechanism of esterification of ethyl alcohol Dihydric alcohols - methods of prep ⁿ , chemical reactivity, oxidative cleavage by <u>LTA</u> , <u>H₂O₄</u> , <u>Pinacol</u> & <u>Pinacolone</u>	
Aug (25 days)	rearrangement & its mechanism. Trihydric alcohols - General methods of prep ⁿ & reactions of glycerol.	
Sept (23 days)	2) <u>Phenols</u> : classification with examples, prep ⁿ Physical properties, acidic character, Reactions of phenols - acylation & carboxylation, mechanism of <u>fries</u> rearrangement, <u>claisen</u> rearrangement, <u>Cattermann</u> synthesis, <u>Haubsen-Hoesch</u> reaction, <u>Leidermann</u> rearrangement reaction, <u>Richter-Tiemann</u> reaction	
Oct (22 days)	3) <u>Ethers & epoxides</u> : Nomenclature, methods of prep ⁿ , physical properties, chemical reactivity, cleavage & autooxidation, <u>Verel's</u> method, synthesis of epoxides, acid & base catalyzed ring opening of epoxides, orientation of epoxide ring opening, reactions of <u>Grignard</u> & <u>Organolithium</u> reagents	

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018


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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Dr. Parveen R* Class: *B.Sc. I Sem* Sub: *Chemistry*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Reaction mechanism</u> Types of bond cleavage, R.D-carbocations carbanions, carbon free radicals & carbenes. Types of reagents	
July (26 days)	Types of organic reactions. Addition Substitution, S_N1 , S_N2 , E_1 & E_2 . <u>Alkanes</u> General methods of Preparation Free radical mechanism of	
Aug (25 days)	chlorination of methane, pyrolysis <u>cycloalkanes</u> nomenclature, General methods of Synthesis, General reactions Bayer's Strain & Sachse-Moser's study.	
Sept (23 days)	<u>Alkenes</u> General methods of Preparation E.A.R of X_2 , HX , H_2O , ozonolysis and its importance in the identification of alkenes.	
Oct (22 days)	<u>Alkynes</u> General methods of Preparation E.A.R. H_2O , HCN , BO_2 . Acidic nature of alkynes. Hydroboration-oxidation	

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018

Parveen R
ACADEMIC COORDINATOR
Staff

Dr. Parveen R
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Dr. Parveen R
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Dr. Parveen R* Class: *B.Sc - III sem*

Sub: *chemistry*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	CHEMT-3.1-Inorganic chemistry 01. Chemical Bonding: - Ionic bond- Def ⁿ , factors	
July (26 days)	Influencing formation of ionic bond. Boon-Haber cycle, calculation of lattice energy covalent bond- Def ⁿ , VBT, MOT, LCAO - BMO & ABMO.	
Aug (25 days)	Molecular orbital structure & B.O. of He, H, N, O & F molecule comparison of	
Sept (23 days)	VBT & MOT or <u>Non-Aqueous Solvents</u> Physical properties of solvents for functioning as an effective neutralisation medium	
Oct (22 days)	Types of solvents & general characteristics. Reactions in non-aqueous solvents like liq. SO ₂ & liq. NH ₃	

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018

G. Patil
ACADEMIC COORDINATOR

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Staff

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MONTHWISE TEACHING PLAN 2018-19
(Odd Semester)

Class: Bsc V S.I. Smt. Parvathi Pahl. Chemistry.

Month (Working Days)	Syllabus to be covered	Remarks
June (15 days)	Electrochemistry. Molar Conductance, Kohlrausch's law. Ionic conductance mobility, Degree of dissociation. Conductometric titrations.	
July (26 days)	Weak electrolyte. Strong acid against weak base, weak base against strong acid. Mixture of strong & weak acid. Solubility of acids & salts.	
Aug (25 days)	Catalysis. Catalytic reaction mechanism of pH dependent. Auto catalysis & oscillatory reactions. Brønsted acids & bases. Arrhenius reaction, Arrhenius model. Catalyst reaction. Arrhenius model.	
Sept (23 days)	Chemical Equilibrium, Eq. Constant free energy. Thermodynamic derivation, Lechatelier's principle. Isotherm reactions, equilibrium applications.	
Oct (22 days)	Applications.	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(15.06.2018)
 I Sem(28.06.2018)
 3. Completion of Syllabus : 22.10.2018 & 31-10-2018
 4. Closing Day : 02.11.2018

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MONTHWISE TEACHING PLAN 2018-19

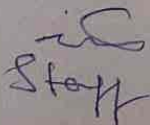
(Odd Semester)


Class: B & V Sem S/Dy Parvathi Pahl, Chemistry


Month (Working Days)	Syllabus to be covered	Remarks
June (25 days)	Classification of carbohydrates monosaccharides oligosaccharides polysaccharides, D/L, α/β - forms, anomers - mutarotation	
July (26 days)	mechanism. Ascending descending Ruff degradation, glycosides, cyclic structure, configuration, Disaccha- rides, Polysaccharides	
Aug (25 days)	Terpenoids - Occurrence, Classification, uses, Isoprene unit application - the elucidation of chiral 2- terpenoid, Alkaloids classification, Cocaine, nicotine, Uses of Cocai- ne and atropine	
Sept (22 days)	Vitamins & Hormones, classification biological importance of vitamins hormones, Synthesis C & A Synthesis of Adrenaline, Thyroni- ne	
Oct (13 days)		

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(13.06.2018)
I Sem(18.06.2018)
3. Completion of Syllabus : 27.10.2018 & 31-10-2018
4. Closing Day : 02.10.2018


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MONTHWISE TEACHING PLAN 2018-19


(Odd Semester)

Class: BSc III Sem. Dr Parvathi Pahl Chemistry.

Month (Working Days)	Syllabus to be covered	Remarks
June (25 days)	1) Physical Properties of liquids Surface tension, paraelectric, chem cell constitution, benzene	
July (26 days)	quinone. <u>viscosity</u> , Density of staley monomer, temp <u>refractive index</u> , Dens by using Abbe's refractometer molar refraction	
Aug (25 days)		
Sept (22 days)		
Oct (13 days)		

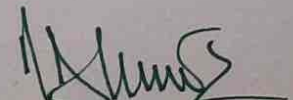
- Note: 1. Opening Day : 01.06.2017
2. Commencement of Classes: III & V Sem(15.06.2017)
I Sem(21.06.2017)
3. Completion of Syllabus : 07.10.2017
4. Closing Day : 19.10.2017


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Shaila H.K. Class: II Sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>s-block elements</u> :- comparative study properties of group IA elements, physical properties EC, atomic radius, softness, density, MP & BP	
Jan-2019 (25 days)	IE, electronegative character, oxidation state flame colouration & its cause, chemical properties - reactivity of metals action of air & water hydrogen, halogen, formation of amalgams. comparative study of alkali metals oxides, peroxide - bicarbonates hydroxides, nitrate	
Feb (24 days)	<u>Alkaline earth metals</u> :- comparative study properties of IA elements, properties EC, MP & BP, softness, density IE, hydration of ions, electropositive character, flame colouration & its causes hydroxides, bicarbonates & carbonates sulphates & halides.	
March (24 days)	<u>p-block elements</u> :- comparative study of boron family elements wrt EC, atomic radius, IE & EA Diagonal relationship bet ⁿ boron & Si. prep ⁿ , Properties, uses & sto of diborane, borazole comparative study properties of carbon family elements wrt EC, IE, atomic radius	
April (16 days)	electron affinity. structural features of diamond & graphite. Halogens:- Structure of iodic acid & iodic pentoxide, pseudohalogens & interhalogens.	

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

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Shaila H.K.
 Staff: Shaila H.K.

Staff: Shaila H.K.

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Shaila H.K.
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

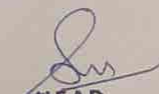
Name of the Staff: Shaila.H.K. Class: V Sem


Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Organometallic chemistry</u> :- Defn nomenclature & classification of organometallic compounds. prepare properties & appn of alkenes & aryls	
July (26 days)	A brief account of metal ethylenic complex & homogenous hydrogenation. mononuclear carbonyls & the nature of bonding in metal	
Aug (25 days)	<u>Inorganic polymers</u> :- Types of polymers, comparison with organic polymers, structural aspects & appn of borazole, silicone	
Sept (23 days)	<u>Bioinorganic chemistry</u> :- Essential & non-essential elements in biological process. metalloporphyrins with reference to myoglobin & haemoglobin. Biological role of Ca^{2+} . Nitrogen fixation.	
Oct (22 days)		

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 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018


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Staff : Shaila.H.K.




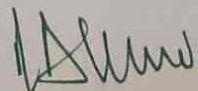
MONTHWISE TEACHING PLAN 2018-19
(Odd Semester)


Name of the Staff: CHANDRAKALA.P Class: B.Sc III Sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)		
July (26 days)	<u>Chemical Kinetics</u> :- Second order reaction, derivation of 2nd order rate equation when $a = b$. Theory of Unimolecular reactions.	
Aug (25 days)	An elementary account of transition theory, Comparison of collision theory & transition state theory.	
Sept (23 days)	<u>Thermodynamics</u> :- First law of Thermodynamics enthalpy; relation between molar heat capacities of gases (C_p and C_v)	
Oct (22 days)	Expression for maximum work done during reversible isothermal expansion of ideal gas. Joule-Thomson effect.	

- Note: 1. Opening Day : 01.06.2018
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 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018


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MONTHWISE TEACHING PLAN 2018-19
 (Odd Semester)

Name of the Staff: **CHANDRAKALA**. Class: **B.Sc. I Sem** Sub: **Chemistry**
 Syllabus to be covered


Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)		
July (26 days)	<u>Unit-6: Gaseous State</u> : Critical phenomena: pv isotherm of real gases, continuity of states, the isotherms of van der Waals equation, relationship between	
Aug (25 days)	critical constants & van der Waals constants, the law of corresponding states, molecular velocity; RMS v, Maxwell's distribution of molecular velocities.	
Sept (23 days)	<u>Unit-7: Liquid State</u> : Intermolecular forces, structure of liquids; liquid crystals; difference between liquid crystal, solid and liquid; Structure of nematic and cholesteric	
Oct (22 days)	<u>Solid State</u> : Laws of crystallography; X-ray diffraction by crystals, derivation of Bragg's equation.	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018


 ACADEMIC COORDINATOR


 HEAD

CHEMISTRY DEPARTMENT
 SMT V.G. COLLEGE FOR WOMEN
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 ಮಹಾವಿದ್ಯಾಲಯ, ಕಲಬುರಗಿ



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MONTHWISE TEACHING PLAN 2018-19


(Odd Semester)


Name of the Staff: Dr. Jayana Jaban Class: B.Sc I Semester Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Biology of Non chordata Introduction to Nonchordates <u>Phylum Coelenterata</u> - General characters & classification, Morphology of Hydra.	
July (26 days)	<u>Contd Ph: Coelenterata</u> - Life cycle of hydra <u>Phylum Arthropoda</u> - General characters & classification, Mouth parts of cockroach & mouth parts of mosquito. Prawn - Morphology & Cephalic appendages	
Aug (25 days)	<u>Contd Ph: Arthropoda</u> Prawn - Thoracic & abdominal appendages, Digestive & Nervous system. <u>Phylum Mollusca</u> - General characters & classification. <u>Unio</u> - Morphology.	
Sept (23 days)	<u>Contd Ph: Mollusca</u> . <u>Unio</u> - Digestive & nervous system. <u>Phylum: Echinodermata</u> General characters & classification with examples, Larval forms of echinodermata	
Oct (22 days)	Revision. Annual Practical examination.	

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018


ACADEMIC COORDINATOR


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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Dr. Farzana Taben Class: B.Sc III Semester Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Poultry</u> : Aim & scope of poultry, poultry farm management - deep litter system & cage system, indigenous breeds of fowls.	
July (26 days)	<u>Contd Poultry</u> - Exotic breeds of fowls. Nutritional value of poultry meat & egg, rearing house equipments, poultry diseases - Ranikhet disease, fowl cholera, polyneuritis, coccidiosis.	
Aug (25 days)	<u>Pearl culture</u> : Microscopic structure of shell, process of pearl formation. <u>Vermiculture</u> : Concept & importance	
Sept (23 days)	<u>Contd vermiculture</u> : Large scale vermiculture, Small Scale vermiculture, role of earthworms in soil fertility.	
Oct (22 days)	Revision. Annual Practical examination.	

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018


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MONTHWISE TEACHING PLAN 2018-19
(Odd Semester)

Name of the Staff: Dr. Farzana Taben Class: B.Sc V Semester Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Introduction to evolution. Theories of organic evolution - Darwin - Wallace theory of natural selection.	
July (26 days)	contd Darwin-wallace theory. Synthetic theory of evolution. Lamarckism Neo Lamarckism	
Aug (25 days)	Speciation - Concept of Speciation, Allopatric & Sympatric Speciation Microevolution & Macroevolution	
Sept (23 days)	Palaeontology Fossils & fossilization. Origin & evolution of man.	
Oct (22 days)	Revision. Annual Practical examination	

- Note: 1. Opening Day : 01.06.2018
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *A. N. Subhakar*; Class: *I III and V*

Sub: *ZOOLOGY*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	III Sem: aquaculture Introduction principle, scope, techniques & importance I Sem (S-I): Introduction; branches of Genetics, Applications & terminology chromosome.	
July (26 days)	III Sem: Economically important aquatic animals, History of Indian major crops & plants I Sem: - phylum: - Annelida, characters I Sem (S-I): Chromosomes, eg. size, morpho- logy, & types, structure & models. Hetero- & Euchromatin, Giant chromosomes: polytene & Campdenish chromosomes.	
Aug (25 days)	III Sem: Fresh water plants, Induced breeding of major crops & seed production. I Sem: N. acids: Expts to prove Gen material chemistry, types, structure, DNA model. Replication of DNA, Forms.	
Sept (23 days)	I Sem: phylum: Annelida, ch'tls & classification III Sem: Endocrine regulators of fish reproduction. Note on fish products & diseases. I Sem: - Genetic code, Properties, Mechanism of protein synthesis, Sex linked inheritance, X & Y linked inheritance & Ex's. Mutations: Types, Syndromes, Human genetics & Eugenics.	
Oct (22 days)	Genetic Engineering: R-DNA Technology, Recombinant production, Applications in Medicine, Food & Agriculture, useful & Harmful effect of biotechnology, DNA finger print & DNA vaccines.	

- Note: 1. Opening Day : 01.06.2018
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 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

G. Prasad
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G. Prasad
 Head of Department of Zoology
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Prabhavati*

Class: I, III and V

Sub: ZOOLOGY.

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)		
July (26 days)	I sem: Phylum platyhelminthes General charac- -ters & classification. II sem: - Sericulture - Brief history, concepts. Life cycle of B. mori. Moriculture. Grading of silkworms. III sem: - Interaction of genes, supplementary factors, dominant epistasis, recessive epistasis	
Aug (25 days)	I sem: Phylum Nematoda General characters with examples. II sem: - Sericulture: Post harvest technology, modern method of rearing house non-mulberry silkworms. V sem: - Complementary factors, multiple factors, lethal gene.	
Sept (23 days)	I sem: Parasitic adaptations of Helminths. III sem: - Silkworm diseases. Importance & scope of dairy farm animals, nutritional requirements housing & hygiene. Milk & milk products. IV: - Characteristics of multiple alleles, Inheritance of coat colour in rabbit & ABO blood groups in human, sex -factors, isotaxels, pseudalleles & position effect.	
Oct (22 days)	III sem: - Dairy farming: Processing, preserva- -tion & marketing, Breeding techniques artificial insemination. IV: - Linkage & crossing over, theories of linkage, linkage in crossophila, linkage in man, mechanism of meiotic crossing over, types of crossing over, cytological detection of crossing over. Sex-determination.	

Note: 1. Opening Day

: 01.06.2018

2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)

3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)

4. Closing Day : 02.11.2018

G.P.
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G.P.
Head of Department of Zoology

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Dr. Chandrakala P.* Class: *B. Sc I Sem* Sub: *Zoology*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<i>Applied Zoology Non-Chordata</i> Introduction - Principles of animal classification - Five Kingdom classification Concept of species Animal nomenclature (Binomial and Trinomial)	
July (26 days)	Phylum:- Protozoa - General characters classification up to class with distinctive characters with Examples Structure of Plasmodium Vivax. Life history of Plasmodium Vivax.	
Aug (25 days)	Phylum Porifera:- General characters of Porifera and classification upto class with examples. Histology of spicules.	
Sept (23 days)	Canal system in Sponges - Different types of Canal system with examples.	
Oct (22 days)	Revision - Practicals - exams. Repetition -	

- Note: 1. Opening Day : 01.06.2018
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 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Dr. Chandrakala* Class: *III Sem*

Sub: *Zoology*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<i>Non-Chordata applied zoology Agriculture: Honeybee morphology. Castes: different types - Queen Drone, workers.</i>	
July (26 days)	<i>Types of different species and Races. Honey, wax, pollen, Venom and bee pollination.</i>	
Aug (25 days)	<i>Honey bee diseases Chemical composition of honey Economic importance of honey.</i>	
Sept (23 days)	<i>Management of bee-keeping - Modern-method Economic importance of honey</i>	
Oct (22 days)	<i>Revision - Practical - exams. Repetition</i>	

- Note: 1. Opening Day : 01.06.2018
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Chandrakala Class: V Sem.

Sub: Zoology
Animal behaviour

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Social organization - Honeybee, Termites and Macraques. Parental care in fishes and amphibians	
July (26 days)	Migratory behaviour - In fishes with ref to Hilsa hilsa & Anguili. Migratory behaviour - Birds. Methods Types, Migration, Orientation	
Aug (25 days)	Innate behaviour - Kinesis, Taxes, Reflexes, Instincts and Motivation. Learned behaviour - Habituation, Imprinting, Reflex & Insight learning	
Sept (23 days)	Colouration - Types; Mimicry - Types with examples. Nesting behaviour in birds. Courtship behaviour - Biological Clock - Types of Rhythms, Chronobiology	
Oct (22 days)	Revision - Practical exams. Repetition	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
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MONTHWISE TEACHING PLAN 2018-19 BIOTECHNOLOGY

Name of the Staff: Dr. Basavarajeshwari (Even Semester)
Ananti Class: B.Sc. II semester Sub: Biochemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>I. Introduction:- Physical & chemical nature of biological materials.</u>	
Jan-2019 (25 days)	<u>II. Carbohydrates</u> <u>III. Proteins</u>	
Feb (24 days)	<u>IV. Lipids.</u> <u>V. Enzymes.</u>	
March (24 days)	<u>VI. Nucleic acids.</u> <u>VII. Analytical techniques-</u> <u>1) Chromatography.</u>	
April (16 days)	<u>2) Spectrophotometer,</u> <u>3) Centrifugation.</u> <u>4) Electrophoresis.</u> <u>5) Radioactivity.</u>	

Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

BIOTECHNOLOGY

(Even Semester)

Agriculture & Environment

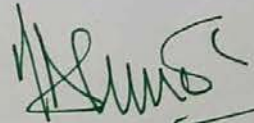
Name of the Staff: Dr. Balavarajeshwari Swanti Class: B.Sc II semester

Sub: Biotechnology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	1) Introduction to agricultural Biotechnology 2) Renewable & Non-renewable resources	
Jan-2019 (25 days)	3) Transgenic plants 4) Impact of conventional & non-conventional fuels on environment 5) Treatment of municipal & industrial waste water effluents.	
Feb (24 days)	6) Biofertilizers & Biopesticides. 7) plant growth regulators. 8) Germ plasma preservation.	
March (24 days)	9) Biodegradation & Bioremediation 10) Production of Biofuels - Biogas, Biodiesel, BiHydrogen, bioethanol 11) Microbial ore leaching & recovery 12) Study of vermicomposting	
April (16 days)	13) Study of air, water & soil pollution 14) Environmental protection act & related issues.	

Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

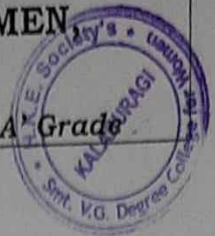

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

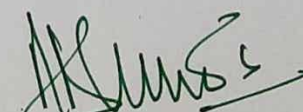
Name of the Staff: mangala sm Class: IV

Sub: molecular Biology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	① Introduction, experimental proof of DNA & RNA as genetic material, central dogma.	
Jan-2019 (25 days)	② DNA Replication: prokaryotic & eukaryotic enzymes & proteins involved in replication, theta & rolling circle model. ③ DNA Damage & Repair: causes & mechanisms - photo reactivation, excision repair, mismatch repair & SOS repair	
Feb (24 days)	4) Recombination in prokaryotes: transformation conjugation & transduction - mechanism. 5) Genetic code: Expression of genetic code, properties & deciphering.	
March (24 days)	6) Transcription: process of transcription & post-transcription modification. 7) Translation: Initiation, elongation & termination of protein synthesis.	
April (16 days)	8) Regulation of gene expression: Regulation of gene expression in prokaryotes Lac operon concept, Regulation of gene expression in eukaryotes - transcriptional activation, galactose metabolism in yeast.	

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19

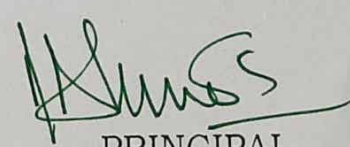
(Even Semester)

Name of the Staff: mangalav R Class: BSc II sem Sub: Industrial & Medical Biotech

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	1) Introduction to industrial Biotech Basic principles of fermentation technology, scale up of fermentation	
Jan-2019 (25 days)	2) screening & isolation of industrially imp microorganism. 3) fermentation media - Natural & synthetic media, sterilization techniqs. - Heat, radiation, Filtration methods. 4) Fermentors: process of Aeration, Agitation	
Feb (24 days)	temp. regulation & foam control types of fermentors - typical, airlift, tower & bubble up fermenter. 5) types of fermentation: solid state, submerged fermentation & continuous fermentation immobilized enzymes & cell bioreactors.	
March (24 days)	6) process development: shake flask ferment DSP, disinfection of cells, separation, extraction, concentration & purification of products. 7) production of microbial products: Brief account of the following products obtained by industrial microbiological fermentation. Lactic acid, Beer, penicillin, Brief account of steroid biotransformation.	
April (16 days)	8) Enzyme Biotech: characteristics of enzymes industrially produced enzymes- Amylase. Industrial uses of enzymes 9) Fermented foods: yogurt, Buttermilk Dosa, cheese, Temped, microbial foods - SCP, SCO & probiotics.	

Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19

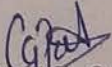
(Even Semester)

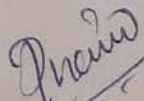
Name of the Staff: Sapna Shukla Class: B.Sc II sem


Sub: 'C' Programming

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days) (06 classes)	<u>UNIT-1</u> : user defined fun, forms of function, return values & types, calling a function, categories of function	
Jan-2019 (25 days) (17 classes)	Cont... categories of function, call by value, call by reference. <u>UNIT-2</u> : structure & union defn, initialization, declaration, comparison, switch, arrays <u>UNIT-3</u> : Pointers, accessing the address of variable	
Feb (24 days) (16 classes)	Initializing & declaring pointers & arrays, pointers & structures, dynamic allocation. <u>UNIT-4</u> : FILES: defn of files, opening & closing modes of a file, creating & processing data file, types	
March (24 days) (16 classes)	<u>UNIT-5</u> : MS-office - Internet Tools Features, cell, cell pointers, cell address, parts of MS-excel window, creating excel sheet functions in excel, charts. <u>UNIT-6</u> : Concept of n/w - LAN, WAN, MAN.	
April (16 days) (08 classes)	Cont... uses of internet, prerequisites of internet, www, website, webpage, e-mail, creating, sending & receiving, adv & dis of e-mail, downloads, upload.	

- Note: 1. Opening Day : 21.02.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19


(Even Semester)

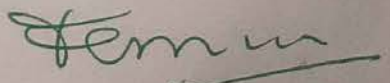
Name of the Staff: Jagadevi Class: IV sem Sub: DS using C.

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days) (05)	Introduction to data structure classification & operations on DS	only 2 classes were conducted
Jan-2019 (25 days) (18)	Dynamic memory allocation, realloc, initialize, access a variable through pointer, sorting, arrays & different types of data	16 classes conducted
Feb (24 days) (16)	Stacks, arrays, operation on stack. Queue, arrays, operation on queue	
March (24 days) (12)	Linked lists, arrays, represent- ation, insertion & deletion singly linked list, doubly linked list, operation on singly linked list	
April (16 days) (10)	Trees, arrays, representation, creation, BST, In order, pre-order & post order searching BST, sequential & Binary search.	

- Note: 1. Opening Day : 21.02.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19
(Even Semester)

Name of the Staff: Smita Paul Class: B.Sc VI sem Sub: Visual Basic 6.0

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days) (08)	i Introduction to VB. Integrated development environment. Menu Bar, Toolbar, Form design. Project exploration. ii Form object: Properties of all forms	only 3 classes, were conducted
Jan-2019 (25 days) (18)	iii. Events, Methods. Events - load, Unload, click, Activate, Deactivate. Methods, Show, Hide, Controls: Properties of events of different controls, Labels, Textbox, Image, Timer.	14 classes conducted
Feb (24 days) (16)	v Programming in VB. Data types, variables, declaration & scope, arithmetic operations. Study of form and code modules.	
March (24 days) (18)	Private and public procedures. Main procedures. Subs. vi Branching & looping. Statements vii Array: array declaration, Array() Toolbar creating MDP, MS Common Control	
April (16 days) (17)	viii Methods and Properties of an object, class Modules, Encapsulation & Inheritance (DLLs), Window API, files, Database connectivity - DAO, & ADO, Tables & Queries Access object	

- Note: 1. Opening Day : 21.02.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

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
MONTHWISE TEACHING PLAN 2018-19

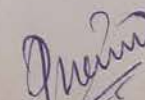
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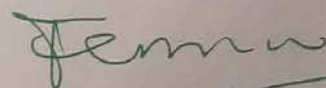
Name of the Staff: Smt. Premila S. Jang Class: B.Sc VI sem Sub: 6.2 Java

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days) (2 days)	Unit I - Introduction of Java Features & concepts	
Jan-2019 (25 days) (13 days)	Unit I - Features Unit IV - Class, constructor, Inheritance, overloading overriding, Exception Handling Unit II - Data types, Java Tokens	
Feb (24 days) 12 days (4 days I 9th)	Unit III - operators, Type casting. Selection Statement Unit V - Applet, with simple programs	
March (24 days) (14 days)	Unit VI Multithreaded Programming Unit VII Graphic programming	
April (16 days) 9 days	Unit VIII - Event Handling. Key & Mouse Events with simple programs.	

Note: 1. Opening Day : 21.02.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019


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MONTH WISE TEACHING PLAN 2018-19

(Even Semester)

Staff: Dr. Mallikarjun Chickpatil

Class: B Sc II Sem

Sub: Electronics

Paper: 2.1 Electronic Circuits



Month	Syllabus to be covered	Remarks
Jan (25 days)	Unit I Linear power supplies: Introduction: General block diagram of a linear regulated power supply. Rectifiers: Half wave , full wave and bridge rectifiers-Rectification efficiency and ripple factor. Filter: series inductor filter and shunt capacitor filter. Voltage regulators: Zener as voltage regulator, series and shunt transistor regulators. Unit V Transistor biasing and equivalent circuit: Introduction- Transistor biasing: Need for biasing, load line –operating point, Thermal runaway.	
Feb (25 days)	Different biasing circuits, stability factor, voltage divider biasing, bias compensation using diode and thermistor. H-parameters hybrid equivalent model of a transistor in CE mode. Expression for current gain, voltage gain, input and output impedances. Unit VI Voltage and Current amplifiers: Classification of amplifiers, RC coupled amplifiers, transformer coupled amplifiers and direct coupled amplifiers, their frequency response. Emitter follower, darlington pair amplifier, FET amplifier(common source) and frequency response and bandwidth.	
March (25 Days)	Unit-VII Power Amplifier: Class A single ended power amplifier, class B push-pull amplifier (Transformer coupled) complementary symmetry class B push pull amplifier, harmonic distortion and cross over distortion. Expression for the power efficiency for the above amplifiers. Tuned amplifier: Single tuned amplifier and double tuned amplifier (frequency response, band width, Q factor). Unit-II IC Voltage Regulators: Introduction, Functional block diagram. Features, practical circuits using-78XX and 79XX series. Adjustable voltage regulators: Functional block diagram. Features, practical power supply circuits- using LM 317, LM 337 and LM 723.	
April (25 Days)	Unit III : Controlled rectifier. Introduction, Principal of phase control, firing and conduction angle. Different firing scheme-R firing, RC firing UJT firing. HWR, FWR and bridge rectifier using SCR. Unit IV Switch Mode Power Supply(SMPS) Introduction, General block diagram of SMPS. Advantages and disadvantages of SMPS over linear power supply. Classification of SMPS, Functional block diagram of SMPSs ICSG-3524/TL497, Step up and step down SMPS using IC SG3524.	

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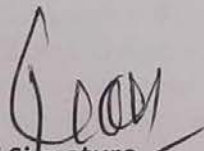
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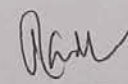


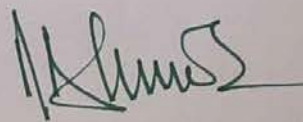
Staff: Dr. Mallikarjun Chickpatil


Class: B Sc Sem VI Sub: Electronics Paper: 6.2: INSTRUMENTATION AND MICROCONTROLLER

Month	Syllabus to be covered	Remarks
Jan (25 days)	UNIT - I: Instrumentation (Sensors and Applications): Resistance type temperature sensors, Thermistors, Thermocouples, Solid state sensors,	
Feb (25 days)	UNIT - I: Instrumentation (Sensors and Applications): Quartz thermometers, radiation type sensors – optical parameters.	
March (25 Days)	UNIT - I: Instrumentation (Sensors and Applications): Displacement and strain transducers: LVDT, Strain guage – types of strain gauges, material for strain guage.	
April (25 Days)	UNIT - I: Instrumentation (Sensors and Applications): Pressure transducers: piezo electronic pressure transducer.	


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MONTH WISE TEACHING PLAN 2018-19

(Even Semester)



Staff: Sri. Y.N.Ravindra

Class: B Sc VI Sem

Sub: Electronics

Paper: 6.1: COMMUNICATION ELECTRONICS- II

Month	Syllabus to be covered	Remarks
Jan (25 days)	Unit – I: Monochrome Television: Elements of TV broadcasting, principles of scanning, interlace scanning, aspect ratio, composite video signal (CVS), blanking and synchronizing pulses, TV channel (CCIR-B) allotment of frequencies. Camera Tubes: Camera tube characteristics, principle, construction and working of Vidcon and Image Orthicon camera tubes. VSB transmission, Block diagram of Monochrome TV transmitter and receiver.	
Feb (25 days)	Unit – II: Colour Television: Colour TV principle, compatibility, mixing of colours, colour camera system, Luminance and Chrominance signal, colour subcarrier, PAL-system, PAL encoder and decoder, colour picture tube and block diagram of Colour Television receiver.	
March (25 Days)	UNIT – III: Digital communication: Introduction, different modulation techniques – PAM, PWM, PPM, PCM and Delta modulation. Synchronous, asynchronous transmission, probability of bit error in base band transmission, the matched filter, optimal terminal filters, bit timing recovery, eye diagrams, digital carrier systems (ASK, FSK, PSK, DPSK, QPSK) Carrier recovery, circuits.	
April (25 Days)	UNIT - IV: Fibre optical communication: Advantages of Optical Fiber. Principle of operation, acceptance angle and numerical aperture. Modes and configuration. Fiber Types: Step Index & Graded Index. Optical Sources: LED & Laser Diode. Optical Detectors: PIN Detector & Avalanche photodiode. General OFC system-block diagram and working of each block.	

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(Even Semester)

Staff: Sri Y.N.Ravindra

Class: B Sc VI Sem Sub: Electronics Paper: 6.2: INSTRUMENTATION AND MICROCONTROLLER

Month	Syllabus to be covered	Remarks
Jan (25 days)	UNIT – II Signal Conditioners: Filters- Integrators, Differentiators and active filters-	
Feb (25 days)	UNIT – II Signal Conditioners: Low pass, High pass, Band pass and Band rejection filters. Precision rectifier using Op-Amp.	
March (25 Days)	UNIT – II Signal Conditioners: Peak detector, sample and hold circuit, phase sensitive detector,	
April (25 Days)	UNIT – II Signal Conditioners: instrumentation amplifiers, isolation amplifiers and lock in amplifier.	

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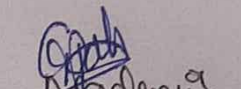
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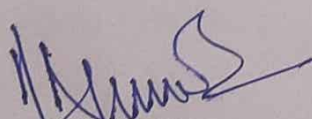
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Staff: Dr. Rajendra B Konda


Class: B Sc VI Sem Sub: Electronics Paper: 6.2: INSTRUMENTATION AND MICROCONTROLLER

Month	Syllabus to be covered	Remarks
Jan (25 days)	UNIT – III: Microcontroller 8051: Comparison between Microprocessor and Microcontroller, 8-bit and 16-bit microcontrollers. Microcontrollers and embedded processors, overview of 8031 & 8051 family, 8051 architecture,	
Feb (25 days)	UNIT – III: Microcontroller 8051: Registers and memories in 8051, Register banks, flag bits, PSW register, data types, JUMP, LOOP and CALL instructions.	
March (25 Days)	UNIT – IV: Addressing modes and Instruction set: I/O programming of 8051, I/O programming, bit manipulation, addressing modes, arithmetic, logical and single bit instructions and programming.	
April (25 Days)	UNIT – V: Timer/Counter programming and Interfacing: 8051 timer programming, Counter programming interfacing ADC and DAC to 8051.	


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MONTH WISE TEACHING PLAN 2018-19

(Even Semester)

Staff: Dr. Rajendra B.Konda

Class: B Sc IV Sem

Sub: Electronics

Paper: 4.1: DIGITAL ELECTRONICS

Month	Syllabus to be covered	Remarks
Jan (25 days)	UNIT – I: Number Systems: Decimal, binary, octal and hexadecimal – their conversion. BCD numbers (8421), Grey, Excess3, ASCII and EBCDIC codes and Error detecting codes. Arithmetic operations in binary, hexadecimal, BCD addition and excess3 addition. Sign magnitude conversion, 1's and 2's complements-2's complement subtraction, Signed number arithmetic-addition.	
Feb (25 days)	UNIT – II: Logic and Boolean algebra: Logic gates: Construction of basic gates- AND, OR and NOT using diodes and transistors, NAND, NOR,XOR and XNOR gates (logic symbols and truth tables), NAND and NOR as universal gates. Boolean algebra-laws & theorems, De-morgan's theorems, simplification of logical expressions using Boolean Algebra, Karnaugh maps (K-map techniques to solve 3 variable and 4 variable expressions).	
March (25 Days)	UNIT- IV: Counters and registers: Binary counter, asynchronous counter, synchronous counter, binary decade counter with decoding gates, Mod-N counter, shift registers, different types of shift registers, up-down counter, ring counter.	
April (25 Days)	UNIT-V: Introduction of IC logic families: Digital IC terminology, TTL logic family, standard TTL series characteristics, TTL open collector outputs, tristat TTL, ECL, IC family, CMOS series and characteristics.	

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Sudharani Class: B.Sc IV Sem Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Groups, sub-groups, cyclic groups & examples on it.	
Jan-2019 (25 days)	Lagrange's theorem and it's consequences, Fermat's & Euler's theorems, Homomorphism & Isomorphism. Normal sub-groups, quotient groups. The fundamental theorem of Homomorphism.	
Feb (24 days)	permutation of groups, Rings, Sub-rings, Integral domains and fields & their properties. LINEAR ALGEBRA: vector space & examples including \mathbb{R}^n & \mathbb{C}^n . Properties of vector space: Subspace.	
March (24 days)	Criteria for a subset to be subspace. Linear combination concepts of linearity independent & dependent sub-sets, Basis & dimension of a vector space & standard results related to a basis, Examples illustrating concepts & results. Linear transformation Properties of linear transformation.	
April (16 days)	Matrix of a linear transformation, change of a basis, range & kernel of linear transformation, rank nullity theorem.	

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

ACADEMIC COORDINATOR

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
(Even Semester)

Name of the Staff: Dr. Veena H Class: Bsc II sem Sub: Maths

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Just introduction about the reduce of Papers, internal marks distribution - all explained	
Jan-2019 (25 days)	Calculus Paper - I - continuity & Differentiability - Taylors & Maclaurins Series I unit	
Feb (24 days)	Indeterminate forms - Com Successive Differentiation II unit	
March (24 days)	III unit Functions of more than one independent variable - Dependent and Independent functions	
April (16 days)	III unit proofs of Jacobians - Functional Relations Revision classes	

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19


(Even Semester)


Name of the Staff: Dr. Veena P.H. Class: Bsc IV sem

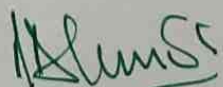
Sub: Maths

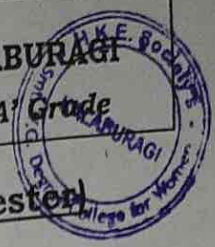
Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Introduction about the syllabus - question paper - every thing is explained : Distribution of D.M.	
Jan-2019 (25 days)	I unit - Algebra III - started.	
Feb (24 days)	II unit - Differential Equations	
March (24 days)	II unit - Cauchy Euler Diff. eqns of order two - III unit - Line and Multiple integrals 5	
April (16 days)	Defn of triple integration and Evaluation Revision	

- Note: 1. Opening Day : 21.12.2018
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3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19 (Even Semester)

Name of the Staff: Dr. Veena PH Class: Bsc VI sem Sub: Maths

Month (Working Days)	Syllabus to be covered	Remarks
<u>DEC-2018</u> (08 days)	Due to valuation and practical Exams, students were not available upto Dec 22, From 23, Dec class started- syllabus and introduction of all three papers, about internal tests, marks distribution of - 6.1 Paper started	
<u>Jan-2019</u> (25 days)	Paper 6.1 - Errors & solution of non-linear eqns - upto Gauss-seidal M Paper 6.2 - Trigonometry I unit - upto Continuity & Differentiability Paper 6.3 - Theory of graphs with Basic defns	
<u>Feb-2019</u> (24 days)	Paper 6.1 - Finite Differences - Fourth order RungeKutta method Paper 6.2 - Complex line integration - Improper Integrals ^{half} completed	
<u>March-2019</u> (24 days)	Improper integrals continued - Paper 6.2 - Lirolle's Thm Paper 6.3 - cut set - Eulerian and Hamiltonian graphs March - 18 th - Lockdown started	
<u>April-2019</u> (10 days)		

Note: 1. Commencement of II, IV & VI Sem Classes : 21.12.2018
 2. End of II, IV & VI Sem Classes : 15.04.2019
 3. Commencement of Vacation for Teachers : 23.04.2019

Co-ordinator

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: DR. FARZANA JABER Class: B.Sc II Sem. Sub: ZOOLOGY.

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Unit 1</u> A. Introduction to chordata : General characters of chordates.	
Jan-2019 (25 days)	<u>Phylum chordata</u> : outline classification upto classes with examples. General characters of Sub phylum Hemichordata, Urochordata, Cephalochordata & Vertebrata. B. Class cyclostomata - General characters with suitable examples. General organisation of petromyzon	
Feb (24 days)	<u>Unit 2</u> : Pisces: General characters & classification upto class level with suitable examples. Types of scales & fins in fishes. <u>Unit 3</u> : Amphibia: General characters & classification upto orders & suitable examples. Ecology & distribution of Ichthyophis, Hyla, Bufo & Salamanders.	
March (24 days)	<u>Unit 4</u> : Aves: General characters & classification upto orders with examples. Flight adaptations of birds Economic importance of birds.	
April (16 days)	<u>Unit 5</u> : Osteology: Rabbit - Axial skeleton - vertebrae & Appendicular skeleton: Pectoral & pelvic girdles & limb bones.	

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: DR. FARZANA Class: B.Sc IV Sem Sub: ZOOLOGY

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Introduction to Physiology : Branches & Scope of physiology .	
Jan-2019 (25 days)	Endocrine System : Functions of mammalian endocrine glands - Pituitary, thyroid, parathyroid, pancreas, adrenals, testis, ovary, placenta & pineal gland. Hypothalamus & its stimulatory & inhibitory hormones .	
Feb (24 days)	Circulation : Types of circulation - Structure, functions & regulation of human heart, blood pressure, composition of human blood, neurogenic & myogenic hearts. Muscle contraction : Principle types of muscles	
March (24 days)	Muscle contraction contd : Ultra str of striated muscles . Contractile proteins - myosin, actin, tropomyosin, troponin & actinin . Mechanism of muscle contraction & relaxation - sliding filament theory . Nervous co-ordination : Nature & conduction of nerve impulse - Synaptic transmission, neuromuscular junction & neurotransmitters .	
April (16 days)	Digestion : Mechanical digestion & chemical digestion Digestion & absorption of proteins, carbohydrates & lipids .	

- Note: 1. Opening Day : 21.12.2018
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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

[6.1 Paper]

Name of the Staff: Chandrakala, Class: B.Sc VI Sem. Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Cell-Biology: History of cell biology and its branches. Cell theory. Ultrastructure of animal cell.	
Jan-2019 (25 days)	Structure & functions of :- Endoplasmic Reticulum, Golgi Complex, Mitochondria. Mitosis, Meiosis and cell cycle.	
Feb (24 days)	Structure and functions of Lysosomes, Ribosomes, Nucleus, Centrioles, Plasma-membrane, cytoskeletal elements.	
March (24 days)	Biology of cancer: Types of cancer, characteristic of cancer cells, Carcinogenic agents (Physical Chemical and biological) light microscope. Seminars - 2	
April (16 days)	Electron microscope. its study and applications. Seminars - 2. Revision.	

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19


(Even Semester)


Name of the Staff: Chandrakala Pato Class: B.Sc VI Sem Sub: Zoology Paper [6.2]

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Habitat Ecology</u> : Introduction.	
Jan-2019 (25 days)	Physico-chemical feature, Ecological Location and classification of <u>marine biota</u> , Ecological adaptations to pelagic water and Deep Sea.	
Feb (24 days)	<u>Fresh water habitat</u> : - Physico-chemical features of lentic and lotic water bodies. Ecological adaptations of freshwater animals living in lotic water bodies.	
March (24 days)	<u>Estuarine habitat</u> : - Physico-chemical features and biota. Mangroves. <u>Terrestrial habitat</u> : A brief account of biomes [Tundra, taiga, chaparral, Grasslands, Savannas, Desert & Deciduas]	
April (16 days)	Wild Life Problems, Distribution of wild life in India. Agencies engaged in wild life Conservation.	

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)


Name of the Staff: Chandrakala . Class: B.Sc II Sem . Sub:

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Class:- Mammalia :- General Characters of Mammalia upto subclass with suitable examples.	
Jan-2019 (25 days)	<u>Type study of Rat</u> : Morphology digestive, Aerial system. Seminar - 1.	
Feb (24 days)	Venous system and Reproductive system. Seminar - 1, Revision.	
March (24 days)		
April (16 days)		

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: A. Neelakanti Class: IV sem.

Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Syllabus dictation & discussion	
Jan-2019 (25 days)	<u>Enzymes</u> , <u>Sept</u> , chemical nature, properties, Enzyme action mechanism, specificity, Reversibility, inhibitors, Co-factors.	
Feb (24 days)	<u>Vitamins</u> : Fat soluble vit's. (A, D, E & K) Water soluble vit's: (B complex & C) Functions, deficiency & symptoms.	
March (24 days)	<u>Bioenergetics</u> - Glycolysis - flow chart step wise reaction Krebs cycle (Krebs cycle) Electron Transport System.	
April (16 days)	<u>Revision</u> : Seminar, Exp discussion, Tests & activities.	

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

A. Neelakanti
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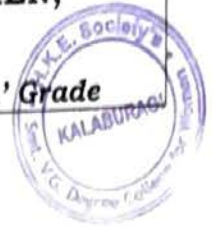
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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)


Name of the Staff: A. Naalakantappa Class: VI sem (6.1) Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Introduction</u> :- Syllabus dictation & discussion.	
Jan-2019 (25 days)	<u>Introduction</u> :- Branches, scope, theories of deopt., pleformale & epigenetic theory. <u>Gametogenesis</u> :- Spermatogenesis/Oogenesis. Comparison. <u>Fertilization</u> :- process steps & significance	
Feb (24 days)	- <u>cleavage</u> : Types; Holo, meroblastic radial, spiral & etc. Effect of yolk. - <u>Early deopt of frog</u> :- structure of ovum cleavage, blastulation & gastrulation. - <u>Early deopt of Hen's egg</u> : cleavage,	
March (24 days)	<u>Blastulation</u> : gastrulation origin & structure of primitive streak, structure of 24 & 48 hrs chick embryos, Extra embryonic membranes. <u>Rept spleen & early deopt of human</u> :- MC & etc regulation. Structure of sperm/ovum. <u>ovulation</u> , cleavage, morula, blastocyst & implantation. <u>placenta</u> - classification with examples.	
April (16 days)	<u>Structure & functions of placenta</u> <u>yolk sac & Allantois placenta</u> <u>Modern trends in human reproduction</u> : sperm bank, IVF, cloning, surrogate mother & multiple births - twins.	

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Smt. PRABHAVA TI Class: B.Sc II Sem


Sub: ZOOLOGY.

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>REPTILIA:</u> General characters	
Jan-2019 (25 days)	Classification of Reptiles, Anapsida, euryapsida, parapsida, synapsida, + diapsida. orders - Rhynchocephalia, squamata, crocodylia & chelonina with examples.	
Feb (24 days)	Key for identification of poisonous & non-poisonous snakes of India, Poisonous snakes → Cobra & Hydrophis, Nonpoisonous snakes → Python, Tephlop.	
March (24 days)	<u>OSTEOLOGY of FROG</u> : <u>Axial skeleton of frog</u> : Typical vertebrae, Axis, Atlas, sternum.	
April (16 days)	<u>Appendicular skeleton of frog</u> : Pectoral girdles, pelvic girdles, Radius, Ulna, Femur, Tibia, Fibula Phalanges.	

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MONTHWISE TEACHING PLAN 2018-19


(Even Semester)


Name of the Staff: Smt. PARSHVATI Class: B.Sc IV Sem Sub: ZOOLOGY

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>NITROGEN EXCRETION:</u> Definition of excretion, nitrogen excretion in aquatic & terrestrial animals. Ammonotelism, ureotelism & uricotelism with examples.	
Jan-2019 (25 days)	Osmithine cycle. Physiology of urine formation <u>RESPIRATION:</u> External & internal respiration - Respiratory pigments: Haemoglobin, Haemocyanin & haemoerythrin. Physiology of respiration	
Feb (24 days)	Exchange of gases, transport of O ₂ , O ₂ dissociation curves - Bohr's effect, Transport of CO ₂ , chloride shift, respiratory quotient <u>IMMUNOLOGY:</u> - Definition, Immune system	
March (24 days)	General characteristic organs & cells of immune system, Bone-marrow, primary lymphoid organ - Bursa of Fabricius, Thymus, Peyer's patches - T. cells & B cells - Antigens & antigenicity.	
April (16 days)	Immunoglobulin - structure of immunoglobulin G (IgG) & immunization, AIDS - Causative factors effects & preventive measures.	

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Smt. PRABHAVATI Class: B.Sc VI Sem Sub: ZOOLOGY

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>ECOLOGY</u> :- Introduction - definitions, History Ecology spectrum.	
Jan-2019 (25 days)	Subdivision of Ecology - scope of ecology. <u>ANIMAL RELATIONSHIPS</u> :- Mutualism, commensalism, parasitism, amensalism, predation & competition with relevant examples. <u>POPULATION ECOLOGY</u> :- Population density, natality, mortality, age distribution, population growth rate, population growth curves, biotic potenti- al - Allee's principle & Gause's principle.	
Feb (24 days)	<u>COMMUNITY ECOLOGY</u> :- Community structure, ecological stratification ecotone & edge effect, Ecological Niche.	
March (24 days)	<u>ABIOTIC FACTORS</u> :- Light - effect of light on animals, Temperature- thermal stratification - effect of temperature on animals, Adaptations to extreme tempera- ture. <u>ENVIRONMENT POLLUTION</u> :- Definition, pollutants & types of pollution - Air, water & soil pollution - Source, effect & control.	
April (16 days)	<u>ZOOGEOGRAPHICAL REALMS</u> :- Zoogeographical realms (with subdivi- sion) of world, with climatic conditio- ns & examples of characteristics fauna - brief account of Wallace's line	

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester) *Biotechnology*

Name of the Staff: *Baburajeshwar* Class: *B.Sc I Sem.* Sub: *cell biology*
(14/12/2018)

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<i>cell theory.</i>	
July (26 days)	<i>cell organelles.</i>	
Aug (25 days)	<i>mutation, metabolism, cell cycle</i>	
Sept (23 days)	<i>Chromatogenesis, Allozymomal & autosomal disorders.</i>	
Oct (22 days)	<i>sex determinator</i>	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Smt. mangala prade* Class: *B.Sc III Sem* Sub: *microbiology & Immunology*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	1) History & scope of microbiology 2) microscopy 3) History & scope of Immunology	
July (26 days)	4) Sterilization 5) Stains & staining techniques 6) Immunity 7) Antigens	
Aug (25 days)	8) culturing of microorganisms 9) microbial growth 10) Antibodies	
Sept (23 days)	11) Antigen - Antibody reactions 12) Humoral & cell mediated immunity 13) Allergy: Types of allergy	
Oct (22 days)		

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018

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MONTHWISE TEACHING PLAN 2018-19
(Odd Semester)

Name of the Staff: Smt. mangala Class: B.Sc. V Sem. Sub: Genetic Engineering

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	1) Introduction to Genetic Engineering 2) Tools of Genetic Engineering	
July (26 days)	3) Gene cloning 4) Detection of clones	
Aug (25 days)	5) Gene Library 6) r-DNA technology for human welfare.	
Sept (23 days)	7) Human genome project & its implication 8) Biosafety: Rules & regulation of formation handling & response to genetically modified organisms	
Oct (22 days)		

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

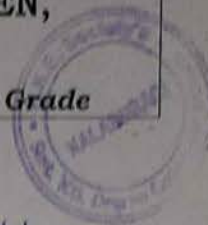
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

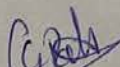
Biotechnology

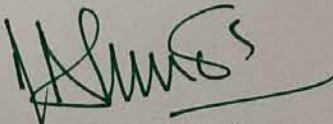
Name of the Staff: Balawaryu Class: B.Sc V Sem.

Sub: Plant & Animal

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Plant tissue culture	
July (26 days)	Animal cell culture, callus culture Animal tissue culture.	
Aug (25 days)	Embryo culture, micropropagation	
Sept (23 days)	Protoplast isolation & fusion Somatic hybridization in crop improvement. IVF, marker studies mono plants.	
Oct (22 days)	In vitro haploid production & their application. Somatic variations. plant secondary metabolites.	

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3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Dr. Shivareg Class: B.Sc. VIth Sem (6.2) Sub: CHEMISTRY

Month (Working Days)	Mulagi Syllabus to be covered	Remarks
Dec-2018 (08 days)	1) <u>Oils, fats & waxes</u> : - Composition of oils, fats & waxes. Analysis of fats & oils. Determination of acid value, iodine value, Saponification value & their importance.	
Jan-2019 (25 days)	Manufacture of Soaps by Modern Continuous process. Types of Soaps & Syndets. Manufacture of Sodium lauryl sulphate & Sod. β -diethylbenzene Sulphonate. Merits & Demerits of Syndets over Soaps. Cleansing action of Soap & Syndet.	
Feb (24 days)	2) <u>Synthetic Dyes & Drugs</u> : - <u>Dyes</u> : - Colour & Constitution, chromophore theory, electronic concept, classification of dyes based on composition & application. Chemistry & Synthesis of Methyl orange, Congo red, Malachite green, Crystal violet, phenolphthalein, fluorescein, alizarin & indigo. <u>Drugs</u> : - Elementary account of chemotherapy & chemotherapeutic agents - antimalarials, Sulpha drugs & antibiotics. Mechanism of drug action. Synthesis and chemistry of chloramine-T, Sulpha-thiazole, chloroquin & Sulphanilamide.	
March (24 days)	3) <u>Synthetic Polymer</u> : - Addition or chain growth polymer. Free radical, Vinyl polymer, ionic vinyl, Ziegler-Natta polymer & Vinyl Polymers. Condensation or step-growth polymer. Polyesters, polyamides, phenol formaldehyde resins, Urea formaldehyde resins, epoxy resins & Polyurethanes. Natural & Synthetic polymers:-	
April (16 days)	4) <u>Organic Synthesis via Enolates</u> : - Acidity of α -hydrogens, alkylation of diethyl malonate & ethyl acetoacetate. Synthesis of ethyl acetoacetate, Claisen condensation (mechanism) Keto-enol tautomerism of ethyl acetoacetate, alkylation & acylation of enamines.	

Note: 1. Opening Day : 21.12.2018
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 3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

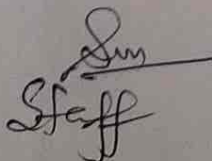
(Even Semester)

Name of the Staff: Dr. Shivaraj Mulagi Class: B.Sc. IVth Sem. Sub: CHEMISTRY

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>1 Nuclear Chemistry</u> - Nuclear Stability, n/p ratio and binding energy, Radioactive decay series.	
Jan-2019 (25 days)	Radioactive equilibrium, artificial transmutation of elements using protons, neutrons and their relative efficiency as projectiles, induced radioactivity, radioactive isotopes, and their uses in studying the mechanism of reactions.	
Feb (24 days)	<u>2 d-Block elements</u> : - General characteristics of transition states with respect to Electronic Configuration & Atomic Size of 3d series elements.	
March (24 days)	Ionisation potential, variable oxidation states, magnetic properties, colour & Spectra explanation with respect to 3d series elements. <u>3-f-Block elements</u> : - Lanthanide series: Electronic Configuration, Oxidation State	
April (16 days)	Colour & Spectra, magnetic properties, Lanthanide contraction. Separation of lanthanides by ion exchange process.	


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Dr. Parveen R. Class: B.Sc. II sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Unit III - Arenes and aromaticity. Nomenclature of benzene derivative	
Jan-2019 (25 days)	Unit III - Arenes and Aromaticity Modern concept of structure of benzene, Huckel's rule, Aromatic ESR - role of σ & π complexes mechanism of nitration,	
Feb (24 days)	halogenation, sulphonation, Energy profile diagrams. Activating & deactivating substituents. Rules of orientation, orienting influence of substituents.	
March (24 days)	Chains oxidation reactions of benzene, Birch reductions. Unit IV - Aromatic nitro compounds	
April (16 days)	Preparation of aromatic nitro compounds, reduction of nitrobenzene in acid, alkalis and neutral medium. Electrophilic & nucleophilic reactions of nitrobenzene.	

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Dr. Parveen R Class: B.Sc. VI 6-1 Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Industrial chemistry: a) Electroplating - Principles & Practices	
Jan-2019 (25 days)	Electroplating of Ni, Co & Au Glass: - Raw materials, manufacture, types of glasses their composition & uses.	
Feb (24 days)	Cement: - Raw materials, manufacture of cement by dry process, mechanisms of setting of cement	
March (24 days)	Metallurgy: - Extraction of uranium from Pitch blends & extraction of thorium from monazite sand	
April (16 days)	Principles of gravimetric analysis Rules of conditions of precipitation Purification of precipitates Types of precipitate, co & post precipitation, effect of pH, temp, digestion, filtration, washing, drying & ignition.	

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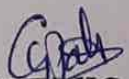
MONTHWISE TEACHING PLAN 2018-19

(Even Semester)


Name of the Staff: Dr. Parveen R. Class: B.Sc. IV sem Sub: Chemistry

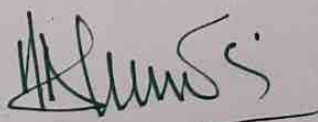
Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Aldehydes & Ketones Synthesis, structure, reactivity & properties of carbonyl group	
Jan-2019 (25 days)	Nucleophilic addition reactions - Benzoin, Aldol, Perkin's, Cannizzaro, Knoevenagel, Mannich, Chemmergen, Wolf-Kishner, LiAlH ₄ & NaBH ₄ , Halogenation	
Feb (24 days)	Aliphatic carboxylic acids & their derivatives:- Synthesis, reactions, acidity of carboxylic acids, effect of substituents on the acid.	
March (24 days)	Hell-Volhard-Zelinsky reaction. Reductions of carboxylic acids. Synthesis & properties of acid chlorides, esters & amides. Stereochemistry	
April (16 days)	Optical isomerism: chirality, Le Bel-van't Hoff's hypothesis. D & L, R & S notations. Racemisation, Geometrical isomerism, E-Z system, Beckmann rearrangement.	

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Shaila H.K Class: B.Sc VI Sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Colligative properties</u> :- Semipermeable membrane, natural & artificial semipermeable membrane, example preparation of copper ferrocyanide semi permeable membrane.	
Jan-2019 (25 days)	osmosis, osmotic pressure its determination by Berkeley & Hauley method. Theory of dilute solution. laws of osmotic pressure molar mass from osmotic pressure measurements	
Feb (24 days)	Isotonic sol ⁿ Relative lowering of V.P. Raoult's law & its derivation. Relation between relative lowering of VP & molar mass. Ostwald's method of determination	
March (24 days)	of relative lowering of vapour pressure. Elevation of BP & its relationship to be lowering of VP & molar mass. Ebullioscopic constant K_b of the solvent & its relation to the BP & enthalpy of vaporisation of the solvent determination of molar mass by K_b	
April (16 days)	Depression of FP & its relation to the lowering of VP & molar mass. K_f of solvent & its relation the fp & enthalpy of fusion of the solvent. Experimental determination of molar mass by cryoscopic method. Abnormal molar mass	Vant Hoff factor

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

Shaila H.K
 ACADEMIC COORDINATOR

Staff: Shaila H.K

Shaila H.K
 HEAD

CHEMISTRY DEPARTMENT
 SMT V.G. COLLEGE FOR WOMEN
 GULBARGA-585.02

Shaila H.K
 PRINCIPAL

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 ಶ್ರೀಮತಿ ಶಿಲ್ಪಾ ಹೆಚ್.ಕೆ.ಎಸ್
 ಮಹಾಲಿಂಗ್ಪುರ ಕಲಾಕೂಟ



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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)


Name of the Staff: Shaila H.K. Class: B.Sc Ist Sem Sub: Chemistry

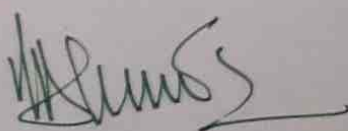
Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Introduction :- Role of analytical chemistry Classification of analytical methods - classical & instrumental. Types. Neutrons & cleanliness.	
Jan-2019 (25 days)	Laboratory operation & practices. Analytical balance. Techniques of weighing, errors, volumetric glass ware - cleaning & calibration of glass ware sample preparation, dissolution & decomposition	
Feb (24 days)	Principles of gravimetric analysis in brief Safety in the analytical laboratory. Errors & Evaluation :- Definition of terms in mean & median, precision, standard deviation, relative standard deviation	
March (24 days)	Accuracy, absolute error, Relative error Types of errors in experimental data. Determination and indeterminate error & gross Sources of errors & their effects upon the analytical results.	
April (16 days)	Methods of reporting analytical data. Statistical evaluation of data. Indeterminate errors. The use of statistics.	

- Note: 1. Opening Day : 21.12.2018
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3. Closing Day : 23.04.2019


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staff: 
Shaila H.K.
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ಮಹಾದಿವ್ಯಾಲಯ, ಕಲಬುರಗಿ



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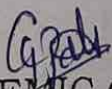
MONTHWISE TEACHING PLAN 2018-19


(Even Semester)

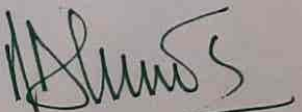
Name of the Staff: Chandrakala D Class: BISC IV sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	Thermodynamics-II :- Second law of thermodynamics, need for law, different statements of Second law,	
Jan-2019 (25 days)	Carnot's cycle and its efficiency. Entropy Concept as state function, entropy change of an ideal gas with change in volume and temperature, pressure and temperature.	
Feb (24 days)	Helmholtz and Gibbs free energy and their relationship. Numericals. *) Spectroscopy: Introduction, electromagnetic regions of spectrum, (*) Rotational spectrum	
March (24 days)	diatomic molecule, selection rule, spectral intensity, Determination of bond length. *) vibrational spectrum: IR spectra, energy level of SHO, Effect of an harmonic motion Raman spectra of diatomic molecules.	
April (16 days)	*) Electronic Spectra: - Concept of potential energy curves for bonding and antibonding molecular orbitals. Frank-Condon principle, qualitative description of σ , π and 'n' molecular orbitals.	

Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19


(Even Semester)

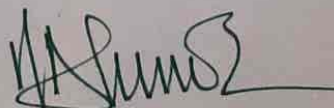
Name of the Staff: Chandrakala. Class: B.Sc. II Sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>Nerst distribution law</u> :- statement and derivation modification of law when solute associates and dissociation in one of the solvents. Application of law to solvent extraction process.	
Jan-2019 (25 days)	1) <u>phase equilibrium</u> :- phase rule, definition and explanation of terms involved, Application to one Component system [eg. water and Sulphur system], and two Component system (lead-silver) system and, KI-water system]. Freezing mixtures.	
Feb (24 days)	2) <u>Liquid mixture</u> :- Different types with examples, Binary mixtures; Completely miscible liquid-type with examples. Raoult's law of vapour, principles of fractional distillation. Azeotropic mixture critical solution temperature with respect to phenol-water, nicotine-water system.	
March (24 days)		
April (16 days)		

Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019


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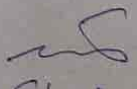
(Even Semester)


Name of the Staff: Dr. Parvathi Class: BSc VI 6-1 Sub: Chemistry


Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	1) <u>Amines</u> classification. Separation of amines, ST apparatus	
Jan-2019 (25 days)	1) <u>Nitriles</u> , aminolysis of acylph or ketone compounds epoxide phthal de reactions, diazonium reactions Electrophile substitution reactions aryl diazonium reactions 2) <u>Amino acids</u> - peptides, proteins	
Feb (24 days)	Amino acids, classification. Phthalimide method ester. Structure & zwitter ions Zwitter ions, isoelectric point	
March (24 days)	<u>Peptides</u> nomenclature, group analysis SS - classification, synthesis <u>Proteins</u> classification, Primary Secondary ST of proteins, denature renaturation (B) <u>enzymes</u> - Nomen- clature, classification, biocatalytic factors, Equations, enzymatic reactions, Michaelis menten equations	
April (16 days)		

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: *A. Parvathi* Class: *B.Sc. VI 6.2* Sub: *Chemistry*

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)		
Jan-2019 (25 days)	<i>Water pollution, types of water pollutants, biochemical oxygen demand, industrial effluents. Water pollutants in environments.</i>	
Feb (24 days)	<i>2. Analysis of water pollutants. Organic, Parameters, acidity alkalinity hardness, Chlorine, fluoride, nitrate, phosphate, nitrogen sulphate, H_2S, SO_2, CO_2.</i>	
March (24 days)	<i>Particulates, 3) Analysis of soil. aspects of soil, moisture, silica line, magnesium, magnesium, sulphur chloride salts. Different methods of fractions. 4) Waste & their management, origin of wastes, water pollutants, industrial effluents, soil, radioactive waste, degradation.</i>	
April (16 days)		

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: *Dr. Parvathi P* Class: *B.Sc. V Sem*

Sub: *chemistry*

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)		
Jan-2019 (25 days)		
Feb (24 days)	<i>Electromotive force galvanic cell, electrode reactions. B.M.F. calibration of electrode S.C.E. reference electrode.</i>	
March (24 days)	<i>hydrogen electrode, silver-silver chloride electrode applications B.M.F. measurements potentiometric titrations, standardization titrations Redox titrations</i>	
April (16 days)		

- Note: 1. Opening Day : 21.12.2018
2. Completion of Syllabus : 13.04.2019
3. Closing Day : 23.04.2019

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Dr. Shivaram Class: B.Sc Vth Sem (5.1) Sub: CHEMISTRY

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Organic Chemistry</u> 1. <u>Heterocyclic Compounds</u> : - molecular orbital picture and aromatic character of pyrrole, furan, thiophene and pyridine. Methods of formation and reactions of pyrrole, furan, thiophene and pyridine. Comp. of bases of	
July (26 days)	pyrrole, pyridine and piperidine. Condensed 5 & 6 membered heterocycles - prep ⁿ & reaction of indole & quinoline - Fischer indole synthesis and Skraup synthesis.	
Aug (25 days)	2. <u>Organometallic Compds</u> Grignard reagent: - prep ⁿ , reaction, structure. <u>organozinc Compds</u> : - formation and chemical reactions <u>organolithium Compds</u> : formation & chemical reactions.	
Sept (23 days)	3. <u>organosulphur Compds</u> : - Nomenclature, structural features, methods of prep ⁿ & chemical reactions of Thiols, Thioesters, Sulphonic acids, Sulphonamides & Sulphaguanidine.	
Oct (22 days)	4) <u>Spectroscopy of organic Compds</u> : - UV Spectroscopy - principle & measurement, electronic excitation, simple chromophoric groups. Conjugated system, extended conjugation, aromatic system effects of CH_3CHO & CH_3COCH_3 & $\text{CH}_3\text{COCH}_2\text{CH}_3$ & $\text{CH}_3\text{COCH}_2\text{COCH}_3$ <u>Infrared Spectroscopy</u> : - Molecular vibrations principle & measurements, absorption of common functional groups - NH_2 , NH , OH , $\text{C}=\text{N}$, $\text{C}\equiv\text{N}$, $\text{C}=\text{O}$, COOR , fingerprint regions. <u>Problems on UV & IR.</u>	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem (11.06.2018) & I Sem (18.06.2018)
 3. Completion of Syllabus : III & V Sem (22.10.2018) & I Sem (31.10.2018)
 4. Closing Day : 02.11.2018

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MONTHWISE TEACHING PLAN 2018 - 2019

(Odd Semester)

CLASS: B.Sc I Sem NAME OF THE STAFF: Sapna + Smita

SUB: Advance C

MONTH (WORKING DAYS)	SYLLABUS TO BE COVERED	REMARKS
July	Introduction to digital computers, block diagram, explanation of each unit, ALU, CU, memory, input output unit. C programming :- Algorithm & flow chart, structure of C, constants, variables & data types, operators & expression	
Aug	Number system, boolean algebra, basic logic gates and universal gates, Basic expressions. executing a C program, data types, relational operators logical operators	
Sep	Input, output function, formatted input & output Decision making with if statement, simple if, else if statement, nesting if else statements, the goto statement, while, do while loop, for, jumps one dimensional, two dimensional & multi dimensional array	
Oct	word processing, features of word processing, menus commands tool bar, buttons, formatting, creating, saving & printing a document, setting tables.	

Smita
Sapna
STAFF

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MONTHWISE TEACHING PLAN 2018 - 2019
 (Odd Semester)

CLASS: B.c III

NAME OF THE STAFF: Premila S Toran

SUB: BAD & COBOL

MONTH (WORKING DAYS)	SYLLABUS TO BE COVERED	REMARKS
July	Information & Management: - Introduction, Types, Management, Str, Requirements, Quality of inform ⁿ , Examples. Information system Analysis: Role, test & attributes, tools Information gathering, Feasibility Analysis.	
Aug	Inf ^l System Analysis: - DFD, Process specification & decision table, data i/p methods, Test, implementation of information system, most changeable systems, tasks.	
Sep	Implementation of inf ^l system: - strategies, system testing, quality control, COBA	
Oct	Data processing Through COBOL	

Savita
 For Signature
 STAFF

Gopal
 ACADEMIC COORDINATOR

Pradip
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V.H.
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MONTHWISE TEACHING PLAN (Odd Semester)

Academic Year: 2018-19 Class: B.Sc - III Subject: SAD & COBOL

Sl. No	Month (Working Days)	Topics to be Covered	Rem
1	July	Information & Management :- Introduction, Types, Management Structure, Requirements, Quality of Inf. Examples, Information System Analysis! Role, task & attributes, tools. Information gathering, Feasibility Analysis	
2	August	Inf. System Analysis :- DFD, Process specifications & decision table, data i/p methods, Test, Implementation to Inf. system. most changeable systems, tasks.	
3	September	Implementation of Inf. system :- strategies, system testing, quality control, COBOL	
4	October	Data processing Through COBOL :-	

For Staff

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MONTHWISE TEACHING PLAN 2018 - 2019

(Odd Semester)

CLASS: B. SC Ist Sem NAME OF THE STAFF: Jagdevi A

SUB: C++

MONTH (WORKING DAYS)	SYLLABUS TO BE COVERED	REMARKS
July 14	unit I : Overview of oop unit II : Modulation programming with functions unit III : Classes	
Aug 19	unit III : Objects unit IV : Operator Overloading unit V : Inheritance	
Sep 14	unit V : Continuation unit VI : virtual functions and polymorphism unit VII : Templates	
Oct 9	unit VIII : Exception Handling unit VIII : streams Test	

For Jagdevi A
 STAFF

G. P. S.
 ACADEMIC COORDINATOR

Prasanna
 Dept. of Computer Science
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MONTHWISE TEACHING PLAN 2018 - 2019

CLASS: B.sc 2nd

(Odd Semester)

NAME OF THE STAFF: *Smt. Premila S. Soran*

SUB: DBMS

MONTH (WORKING DAYS)	SYLLABUS TO BE COVERED	REMARKS
July	Introduction : Data DB , characteristics, uses, advantages , disadvantages , implication, data models DBMS architecture , data independence, language and interface & classification	
Aug	SQL : Introduction , data types , basic queries with syntax & examples ER-models & introduction, sql commands	
Sep	High level conceptual data models for DB design Entity , set, notations , proper naming , relational model , relational algebra , calculus update Normal forms	
Oct	Program Explanation Revision of Normal forms -	

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MONTH WISE TEACHING PLAN 2018-19

(Odd Semester)

Staff: DR.R.B.KONDA

Class: B Sc I Sem

Sub: Electronics

Paper: I.1: : FUNDAMENTALS OF ELECTRONICS

Month	Syllabus to be covered	Remarks
June (25 days)	UNIT-I: AC CIRCUITS: Representation of AC, sine wave cycle, time period, frequency, average value, peak value (amplitude), peak to peak, rms value, phase and phase difference, power factor. Form factor, phasor diagram complex number j-operator reactance and impedance. RL, series and RC series circuits, RLC circuits: series and parallel-impedance curve, selectivity,band width Q-factor (loaded and un loaded Q) comparison between series RLC and parallel RLC circuits. Series resonance-condition for resonance, resonant frequency, half power frequencies, band width quality factor (loaded and un loaded Q),comparison and application.	
July (25 days)	Circuit analysis: Current and voltage source: Ideal and real voltage and current source. DC resistive circuits: Voltage and current divider theorems open and short circuits, Kirchhoff's laws mesh analysis and voltage and node voltage method	
AUG (25 Days)	UNIT-III:Networktheorems: T and pi network, inter conversion, superposition theorem. Thevenin theorem Norton's theorem, maximum power transfer theorem, reciprocity theorem and Milliman's theorem.	
SEPT (25 Days)	UNIT-IV: Semiconductor devices: Construction, working, Characteristics curves : P-N junction diode, Zener diode, Tunnel diode, Schottky diode, Photo diode, Varactor diode, LED and Alpha numerical display and LCD. Bi-Polar and Uni-polar Junction Devices (Construction, working characteristics curves and applications) : Transistor- NPN/PNP-working CB,CE and CC mode, current gain alpha, beta, gamma relations-input and output characteristics of CB and CE configuration leaking current. UJT, FET and MOSFET-Enhancement type and depletion type FET as a voltage resistor, UJT relaxation oscillator.	

R.B.Konda

Staff Signature

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Academic
Coordinator



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2018-2019
MONTHWISE TEACHING PLAN ~~2018-19~~

(Odd Semester)

Class: B Sc III Sem

Name of the Staff: Dr Mallikarjun Chickpatil

Sub: Electronic Circuits

Month (Working Days)	Syllabus to be covered	Remarks
July (25 days)	UNIT- I : Wave shaping circuits :06 Linear wave shaping Integrator and differentiator (RC and RL) Non liner waves shaping- positive negative biased clippers and clampers	
Aug (25 days)	UNIT-II : Feed back in amplifiers and wave form generators15 Basic concepts of feedback in amplifiers, positive and negative feedback in Amplifiers, effect of negative feedback on amplifier characteristics. Basic principle of oscillators- tank circuit - Barkhausen criteria-LC oscillator - Hartley and Colpitt's-RC oscillators-phase shift oscillators- Wienbridge and crystal oscillators using transistors. Types of multivibrators – astable, monostable, bistable and Schmitt trigger.	
Sept (25 Days)	UNIT-III: Operational amplifiers and applications 15 Differential amplifier, modes of operation of differential amplifier, Op-Amp – Block Diagram, parameters. Op-Amp with negative feedback, effect of negative feedback on Op-Amp characteristics, bias current and offset voltage compensation. Applications: Op-amp as non-inverting, inverting amplifier. Adder, sign changer, scale changer and difference amplifier, V to I converter and vice versa, Integrator, Differentiator, Logarithmic and antilogarithmic amplifiers.	
Oct (25 Days)	UNIT-IV : Waveform generators12 Comparator, Schmitt trigger, astable, monostable and bistable multivibrators. Phase shift oscillator, Wein bridge oscillator, triangular and Ramp wave generator. Active filters: Low pas high-pass, band pass, band-elimination filters and all pass filters (Expression for cut off frequency and pass band gain). UNIT-V: Timer 12 IC timer 555: Block diagram, astable, monostable, bistable multivibrators, Schmitts trigger using timer. Question paper solving	

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MONTH WISE TEACHING PLAN 2018-19

(Odd Semester)



Staff: Sri. Y.N.Ravindra

Class: B Sc V Sem

Sub: Electronics

Paper: 5.1: COMMUNICATION ELECTRONICS- I

Month	Syllabus to be covered	Remarks
June (25 days)	UNIT I: Transmission lines and Antennas: Type of transmission lines, Distributed parameters of T-line, T- line equation, characteristics impedance, propagation constant, frequency and phase distortion. Condition for distortion less T- line and standing waves. Antenna parameters, Dipole antenna, radiation resistance, power radiated by dipole antenna, TV receiver antenna requirements, resonant antenna, yagi antenna.	
July (25 days)	UNIT -II: Modulation Techniques: Need for modulation, Amplitude modulation, expression for AM waves, modulation index, frequency spectrum, power relations, modulator circuits, plate modulators, emitter modulator, base and collector modulator, various SSB schemes. Balanced modulators. Frequency modulation-expression for FM waves, modulation index, varactor diode modulation and FET (or transistor) reactance modulator, AM and FM transmitters (block diagram only) comparison of AM and FM, Phase modulation (qualitative analysis).	
AUG (25 Days)	UNIT - III: Demodulation: AM diode detector, AGC, practical diode detector circuits, square law detector, FM detectors, slope detectors, foster-seeley discriminator, ratio detector.	
SEPT (25 Days)	UNIT - IV: Radio Receivers: Receiver Characteristics: AM receiver, TRF receiver, super heterodyne receiver for AM and FM, FCC restrictions, noise in electronic circuits	

Staff Signature

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Coordinator



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Smt.Veeramma Gangasiri College for Women Gulbarga
(Affiliated to Akkamahadevi Mahila University, Vijayapur)
NAAC Accrediated 'A' Grade

MONTH WISE TEACHING PLAN 2018-19

(ODD Semester)



Staff: Dr. Rajendra B.Konda

Class: B Sc IV Sem Sub: Electronics Paper: 5.2: DIGITAL ELECTRONICS AND
MICROPROCESSOR

Month	Syllabus to be covered	Remarks
OCT (09 days)	UNIT - I: Data selectors and signal converters: Multiplexers, Demultiplexers, Data converters- D to A converters- Binary weighted resistors network, R-2R ladder network and A to D converter – dual slope integrating type, successive approximation method. Flash converters, resolution and accuracy for above converters.	15
NOV (22 days)	UNIT – II: Memory device: Introduction to primary and secondary memories. RAM – static and dynamic. ROM, EPROM, EEPROM, CCDs, RAM array diode matrix.	10
DEC (26 Days)	UNIT – III: 8085 Microprocessor: 8085-based microcomputer system: The 8085 MPU, Architecture and Pin configuration, Instruction and timings: Instruction classification, Instruction format, Instruction timings and operation status, Instruction set, Addressing modes and groups. Instruction cycle. Memory mapped I/O and I/O mapped memory.	15
JAN (24 Days)	UNIT – IV: Programming 8085: Data transfer instruction, Arithmetic operation, Logic operation, branch operations, writing assembly language programs. Stacks, subroutines and interrupts in Intel 8085	10
FEB (09 Days)	UNIT – V: Interfacing 8085: Interfacing : Need of interfacing devices, parallel and series interfaces, PPI 8255, USART 8251, Key board display interface 8279, DMA controller 8237, PIT 8253, A/D converter and D/A converter interfacing, 7-segment display interfacing.	10

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Sudharani M Class: B.Sc I Sem Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Recapitulation of matrix algebra, rank of a matrix, Elementary operations, Invariance of rank under elementary operations.	
July (26 days)	Echelon form & Normal form of a matrix, inverse of a matrix, System of m-linear Equation in n-unknowns.	
Aug (25 days)	matrices associated with linear Eq ⁿ , Criterion for existence of non-trivial solution of homogeneous & non-homogeneous system.	
Sept (23 days)	Criterion for uniqueness Solutions. Eigen values & Eigenvectors of a square matrix. Cayley-Hamilton theorem - Application	
Oct (22 days)	Revision	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

ACADEMIC COORDINATOR

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Paper - 3.1

Name of the Staff: Sudharani M Class: B.Sc III Sem Sub: mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Recapitulation of vector algebra, vector triple product product of four vectors, Reciprocal vectors.	
July (26 days)	Cartesian co-ordinates in three-dimensional space. Relation bet ⁿ Cartesian co-ordinates & position vectors. Distance & division formulæ (In vector & cartesian form). Direction cosines	
Aug (25 days)	of a line, direction ratios of the two points. Projection on a straight line, angle bet ⁿ two lines. Area of a triangle & volume of a tetrahedron with given vertices	
Sept (23 days)	Eq ⁿ of plane in the form $i) (\vec{r}-\vec{a}) \cdot \vec{n} = 0$ $2) \vec{r} = \vec{c} + t\vec{a} + m\vec{b}$ $3) [\vec{r}-\vec{a}, \vec{b}-\vec{a}, \vec{c}-\vec{a}] = 0$ & their cartesian equivalent plane through three points. Angle bet ⁿ planes. Eq ⁿ of plane in the form $i) \vec{r} = \vec{a} + \vec{b}$ $2) \vec{r} = [1-t]\vec{a} + t\vec{b}$ & their equivalent cartesian forms.	
Oct (22 days)	Angle bet ⁿ line & plane, condition for a plane lies on plane, plane coaxial with given planes, Eq ⁿ of the line of intersection of two planes. 1 st distance of a point from a line & plane, planes bisecting the angle, co-planarity, Shortest distance bet ⁿ two lines (vector & cartesian form)	

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

paper (5.1)

Name of the Staff: Sudharani M Class: B.Sc V Sem

Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Scalar field, gradient of a scalar field, geometrical meaning, directional derivatives, vector field, div & curl of a vector field	
July (26 days)	Solenoidal & irrotational fields, Laplacian of scalar field, vector identities. Expression for $\nabla\phi$, div & curl in orthogonal curvilinear & specialisation to Cartesian, cylindrical & spherical co-ordinates. Green's, Gauss & Stoke's theorems & simple examples on it.	
Aug (25 days)	Potential & basic properties of Laplace transform, d.T of some common functions, d.T of derivatives & the integral of a function. d.T of Heaviside & Dirac delta function.	
Sept (23 days)	convolution theorem, Inverse d.T : Applications of ordinary linear differential equation of first & second order with constant coefficients.	
Oct (22 days)	periodic functions. Fourier series of a function with period 2π & period $2L$. Half range cosine & sine series.	

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MONTHWISE TEACHING PLAN 2018-19

Dr. Veena PH
 Name of the Staff:

(Odd Semester)

Paper Algebra I

Class: Bsc I Sem

Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Theory of eqns startal. Rel ⁿ bet ⁿ the roots and the co- effs of gene ral poly. equ ⁿ in one variable.	
July (26 days)	(Conty Biquadratic equ ⁿ s) Synthetic division, Transformation of equ ⁿ s i) increasing and decreasing the roots by quantity 'h'.	
Aug (25 days)	ii) To multiply the roots of the equ ⁿ by a given quantity m- ples on it. iii) Transform an equ ⁿ into another whose roots are the reciprocals of the roots of the given equ ⁿ .	
Sept (23 days)	Descartes' rule of signs, sol ⁿ of Cubic equ ⁿ by Cardons method of the type $ax^3+bx^2+cx+d=0$, and $px^3+qx^2+r=0$ and sol ⁿ of std cubic equ ⁿ by trigonometric method. sol ⁿ of biquadratic equ ⁿ by Descartes method. Simple problems	
Oct (22 days)	Complex numbers. Demovers thm with proof and some examples on it. Roots of complex nos and sol ⁿ of eqns.	
	Revision with sol ⁿ of Q. P	

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MONTHWISE TEACHING PLAN 2018-19

Dr. Vaena P.H.
 Name of the Staff:

(Odd Semester)
 Class: B. & III sem

Paper: 3.2
 Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	ch-3. Differential Calculus - Mean value theorems, Roll's theorem	
July (26 days)	Lagrange's mean value theorem, Cauchy's mean value theorem, Taylor's theorem & MacLaurin's exp. Indeterminate form. L'Hospital rule. Riemann Integration:- Real no ⁿ system Absolute value of real no ⁿ , Boundedness of subsets of real no ⁿ .	
Aug (25 days)	Partition of a closed interval, upper & lower Riemann sums & integrals, Riemann Integral, Algebra of integrable functions, integrability of continuous & monotonic functions.	
Sept (23 days)	Fundamental theorems of integral calculus, integration by change of variable, integration by parts, mean value theorem. Line & multiple integrals:- line integral over a plane curve & space curve, indepe- ndent of path of integration, double integral.	
Oct (22 days)	Evaluation of double integral, change of order of integration, surface area, triple integral, differentiation under the integral sign - Leibnitz's rule Revision.	

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4. Closing Date
 Co-ordinator

[Signature]

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MONTHWISE TEACHING PLAN 2018-19

Dr. Veena P.H.
 Name of the Staff:

(Odd Semester)

Class: B.Sc V sem

Paper: 5-2

Sub: Mathematics

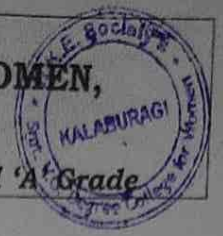
Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Total differential eqn ⁿ :- Necessary condition for the eqn ⁿ $Pdx + Qdy + Rdz = 0$ to integral - problem.	
July (26 days)	Solution of eqn ⁿ of the form $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$. Partial diff. eqn ⁿ :- Formation of PDE, Lagrange's linear eqn ^m $pp + qq = R$.	
Aug (25 days)	Standard types of first order linear partial diff eqn ⁿ & eqn ⁿ reducible to standard form, Charpit's method, Series sol ⁿ :- Legendre diff eqn ⁿ , Legendre polynomials, $P_n(x)$ as a sol ⁿ .	
Sept (23 days)	Rodrigue's formula, generating poly theorem, orthogonal property & basic recurrence rel ^m . Bessel diff eqn ⁿ . Bessel funct ⁿ $J_n(x)$ as sol ⁿ .	
Oct (22 days)	generation formula - integral formula for $J_n(x)$: orthogonal property, Basic recurrence rel ^m problem.	

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MONTHWISE TEACHING PLAN 2018-19

Dr. Veena P. H.
 Name of the Staff:

(Odd Semester)

Graph Theory
 Paper 5.3

Class: Bsc V Semester Sub: Mathematics

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	II half of 5.3 paper - subgraph def ⁿ , graph def ⁿ with graph with many examples on simple graphs	
July (26 days)	disjoint subgraph, def ⁿ of walk and examples on it. Def ⁿ of trail and examples induced subgraph	
Aug (25 days)	spanning subgraph, disjoint cycles, path, cycle and circuit examples on it. connected and disconnected graphs. components. Thms on subgraphs	
Sept (23 days)	Weighted graphs: def ⁿ and some simple thms with proof. Examples on it. Shortest path. path problems. (Dijkstra's algorithm for finding of shortest path	
Oct (22 days)	Matrix representation: incidence matrix, Adjacency matrix. representation of connected and disconnected graph using matrix method.	

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Dr. Shivraj M. Class: BSc Vth Sem (5.2) Sub: CHEMISTRY

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	1. <u>Inorganic Chemistry</u> <u>Coordination Compds</u> : Complex salt & double salt, Werner's theory of Complex, Sidwick's theory of EAN, Types of Ligands:- Mono- & polydentate ligands. Ambidentate ligands.	
July (26 days)	2. <u>Bonding in coordination Compds</u> :- VBT: Pauling assumption, inner & outer orbital complex. Form of complex $[Cu(NH_3)_4]^{2+}$ $[Ni(CN)_4]^{2-}$ $[Ni(CO)_4]^0$ $[Fe(CN)_6]^{4-}$ $[Co(NH_3)_6]^{3+}$ Factors affecting the stability of complexes. Nomenclature & Geometrical isomerism of C.N. 4 & 6.	
Aug (25 days)	3. <u>Crystal field Theory (CFT)</u> :- Important features. Splitting of d-orbitals in tetrahedral & octahedral complexes. Low & high spin complexes. Expn of CFSE & its calculation for d^3 , d^4 & d^7 ions in octahedral complex. Factors affecting the magnitude of $10Dq$ or Δ_o .	
Sept (23 days)	4. <u>Organic reagents in Inorganic analysis</u> :- Introduction, Significance of organic reagents, preparation, properties and structure of DMG, EDTA, Oxine and o-phenanthroline. Applications of each of the above reagent in inorganic qualitative and quantitative analysis.	
Oct (22 days)		

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4. Closing Day : 02.11.2018

Dr. Shivraj M.
ACADEMIC COORDINATOR

Dr. Shivraj M.
Staff

Dr. Shivraj M.
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Dr. Shivraj M.
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MONTHWISE TEACHING PLAN 2018-19


(Odd Semester)


Name of the Staff: Dr. Jaishree G.B. Class: BSc III Sem

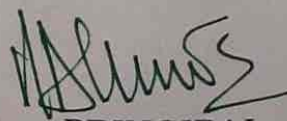
Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	1. <u>Alcohols</u> : classification with examples, Monohydric alcohols, classification & nomenclature, General methods of prep ⁿ of monohydric alcohols, Action of <u>aldehyde</u>	
July (26 days)	reagents on carbonyl comp ^s , hydration of alkenes. Reactions of monohydric alcohols, hydrogen bonding in alcohols, mechanism of esterification of ethyl alcohol Dihydric alcohols - methods of prep ⁿ , chemical reactivity, oxidative cleavage by <u>CrO₃</u> , <u>H₂O₂</u> , <u>Pinacol</u> & <u>Pinacolone</u>	
Aug (25 days)	rearrangement & its mechanism. Trihydric alcohols - General methods of prep ⁿ & reactions of glycerol.	
Sept (23 days)	2) <u>Phenols</u> : classification with examples, prep ⁿ Physical properties, acidic character, Reactions of phenols - acylation & carboxylation, mechanism of <u>Fries</u> rearrangement, <u>Claisen</u> rearrangement, <u>Cattermann</u> synthesis, <u>Hausler-Hoesch</u> reaction, <u>Leidermann</u> rearrangement reaction, <u>Richter-Tiemann</u> reaction	
Oct (22 days)	3) <u>Ethers & epoxides</u> : Nomenclature, methods of prep ⁿ , physical properties, chemical reactivity, cleavage & autooxidation, <u>Wittig</u> 's method, synthesis of epoxides, acid & base catalyzed ring opening of epoxides, orientation of epoxide ring opening, reactions of <u>aldehyde</u> & <u>organolithium reagents</u>	

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Dr. Parveen R* Class: *B.Sc. I Sem* Sub: *Chemistry*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Reaction mechanism</u> Types of bond cleavage, R.D-carbocations carbanions, carbon free radicals & carbenes. Types of reagents	
July (26 days)	Types of organic reactions. Addition Substitution, S_N1 , S_N2 , E_1 & E_2 . <u>Alkanes</u> General methods of Preparation Free radical mechanism of	
Aug (25 days)	chlorination of methane, pyrolysis <u>Alcalkanes</u> nomenclature, General methods of Synthesis, General reactions Bayer's Strain & Sachse-mohr's study.	
Sept (23 days)	<u>Alkenes</u> General methods of Preparation E.A.R of X_2 , HX , H_2O , ozonolysis and its importance in the identification of alkenes.	
Oct (22 days)	<u>Alkynes</u> General methods of Preparation E.A.R. H_2O , HCN , BO_2 . Acidic nature of alkynes. Hydroboration-oxidation	

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Parveen R
 ACADEMIC COORDINATOR
 Staff

Dr. Parveen R
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Dr. Parveen R
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Dr. Parveen R* Class: *B.Sc - III sem*

Sub: *chemistry*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	CHEMT-3.1-Inorganic chemistry 01. Chemical Bonding: - Ionic bond - Def ⁿ , factors	
July (26 days)	Influencing formation of ionic bond. Boon-Haber cycle, calculation of lattice energy covalent bond - Def ⁿ , VBT, MOT, LCAO - BMO & ABMO.	
Aug (25 days)	Molecular orbital structure & B.O. of He, H, N, O & F molecule comparison of	
Sept (23 days)	VBT & MOT or <u>Non-Aqueous Solvents</u> Physical properties of solvents for functioning as an effective neutralisation medium	
Oct (22 days)	Types of solvents & general characteristics. Reactions in non-aqueous solvents like liq. SO ₂ & liq. NH ₃	

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G. Patil
ACADEMIC COORDINATOR

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Staff

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MONTHWISE TEACHING PLAN 2018-19
(Odd Semester)


Class: Bsc V S.I. Smt. Parvathi Pahl. Chemistry.

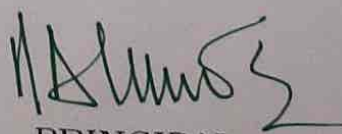
Month (Working Days)	Syllabus to be covered	Remarks
June (15 days)	Electrochemistry, Molar Conductance, Kohlrausch's law, Ionic conductance mobility, Degree of dissociation, Conductometric titrations.	
July (26 days)	Weak electrolyte, Strong acid against weak base, weak base against strong acid, mixture of strong & weak acid, Solubility of acids & salts.	
Aug (25 days)	Catalysis, Catalytic reaction mechanism of pH dependent, Auto catalysis, oscillatory reactions, kinetic acids & bases, A-Z reactions, Arrhenius model, catalytic reaction, Brønsted-Lowry model.	
Sept (23 days)	Chemical Equilibrium, Eq. constant free energy, Thermodynamic derivation, Lechatelier's principle, Isotherm reactions, Fischer's equilibrium, clayton's reaction.	
Oct (22 days)	Applications.	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(15.06.2018)
 I Sem(28.06.2018)
 3. Completion of Syllabus : 22.10.2018 A 31-10-2018
 4. Closing Day : 02.10.2018


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MONTHWISE TEACHING PLAN 2018-19

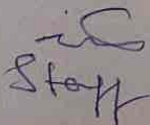
(Odd Semester)


Class: B & V Sem S/Dy Parvathi Pahl, Chemistry


Month (Working Days)	Syllabus to be covered	Remarks
June (25 days)	Classification of carbohydrates monosaccharides oligosaccharides polysaccharides, D/L & α/β - forms, anomers - mutarotation	
July (26 days)	mechanism. Ascending descending Ruff degradation, glycosides, cyclic structure configuration, Disaccha- rides, Polysaccharides	
Aug (25 days)	Terpenoids - Occurrence, Classification, uses, Isoprene unit application - the elucidation of chiral 2- terpenoid, Alkaloids classification, Cocaine nicotine, Uses of Cocai- ne and atropine	
Sept (22 days)	Vitamins & Hormones, classification biological importance of vitamins hormones, Synthesis C & A Synthesis of Adrenaline, Thyroni- ne	
Oct (13 days)		

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(13.06.2018)
I Sem(18.06.2018)
3. Completion of Syllabus : 27.10.2018 & 31-10-2018
4. Closing Day : 02.10.2018


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MONTHWISE TEACHING PLAN 2018-19


(Odd Semester)

Class: BSc III Sem. Dr Parvathi Pahl Chemistry.

Month (Working Days)	Syllabus to be covered	Remarks
June (25 days)	1) Physical Properties of liquids Surface tension, paraelectric, chem cell constitution, benzene	
July (26 days)	quinone. <u>Viscosity</u> , Density of Staley monomer, temper <u>Refractive Index</u> , Dens by using Abbe's refractometer molar refraction	
Aug (25 days)		
Sept (22 days)		
Oct (13 days)		

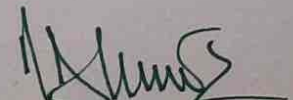
- Note: 1. Opening Day : 01.06.2017
2. Commencement of Classes: III & V Sem(15.06.2017)
I Sem(21.06.2017)
3. Completion of Syllabus : 07.10.2017
4. Closing Day : 19.10.2017


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MONTHWISE TEACHING PLAN 2018-19

(Even Semester)

Name of the Staff: Shaila H.K. Class: II Sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
Dec-2018 (08 days)	<u>s-block elements</u> :- comparative study properties of group IA elements, physical properties EC, atomic radius, softness, density, MP & BP	
Jan-2019 (25 days)	IE, electronegative character, oxidation state flame colouration & its cause, chemical properties - reactivity of metals action of air & water hydrogen, halogen, formation of amalgams. comparative study of alkali metals oxides, peroxide - bicarbonates hydroxides, nitrate	
Feb (24 days)	<u>Alkaline earth metals</u> :- comparative study properties of IA elements, properties EC, MP & BP, softness, density IE, hydration of ions, electropositive character, flame colouration & its causes hydroxides, bicarbonates & carbonates sulphates & halides.	
March (24 days)	<u>p-block elements</u> :- comparative study of boron family elements wrt EC, atomic radius, IE & EA Diagonal relationship bet ⁿ boron & Si. prep ⁿ , Properties, uses & sto of diborane, borazole comparative study properties of carbon family elements wrt EC, IE, atomic radius	
April (16 days)	electron affinity. structural features of diamond & graphite. Halogens:- Structure of iodic acid & iodic pentoxide, pseudohalogens & interhalogens.	

- Note: 1. Opening Day : 21.12.2018
 2. Completion of Syllabus : 13.04.2019
 3. Closing Day : 23.04.2019

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Shaila H.K.
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Shaila H.K.
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 ಮುಂಬಯಿ, ಕೆ.ಆರ್.ನಗರ



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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)


Name of the Staff: Shaila.H.K. Class: V Sem


Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Organometallic chemistry</u> :- Defn nomenclature & classification of organometallic compounds. prepare properties & appn of alkenes & aryls	
July (26 days)	A brief account of metal ethylenic complex & homogenous hydrogen ation. mononuclear carbonyls & the nature of bonding in metal	
Aug (25 days)	<u>Inorganic polymers</u> :- Types of polymers, comparison with organic polymers, structural aspects & appn of borazole, silicone	
Sept (23 days)	<u>Bioinorganic chemistry</u> :- Essential & non-essential elements in biological process. metalloporphyrins with reference to myoglobin & haem globin. Biological role of Ca^{2+} . Nitrogen fixation.	
Oct (22 days)		

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018


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Staff : Shaila.H.K.



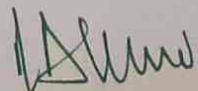
MONTHWISE TEACHING PLAN 2018-19
(Odd Semester)


Name of the Staff: CHANDRAKALA.P Class: B.Sc III Sem Sub: Chemistry

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)		
July (26 days)	<u>Chemical Kinetics</u> :- Second order reaction, derivation of 2nd order rate equation when $a = b$. Theory of Unimolecular reactions.	
Aug (25 days)	An elementary account of transition theory, Comparison of collision theory & transition state theory.	
Sept (23 days)	<u>Thermodynamics</u> :- First law of Thermodynamics enthalpy; relation between molar heat capacities of gases (C_p and C_v)	
Oct (22 days)	Expression for maximum work done during reversible isothermal expansion of ideal gas. Joule-Thomson effect.	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018


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MONTHWISE TEACHING PLAN 2018-19
 (Odd Semester)

Name of the Staff: **CHANDRAKALA**. Class: **B.Sc. I Sem** Sub: **Chemistry**
 Syllabus to be covered

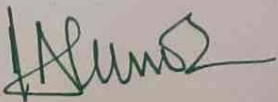
Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)		
July (26 days)	<u>Unit-6: Gaseous State</u> : Critical phenomena: pv isotherm of real gases, continuity of states, the isotherms of van der Waals equation, relationship between	
Aug (25 days)	critical constants & van der Waals constants, the law of corresponding states, molecular velocity; RMS v, Maxwell's distribution of molecular velocities.	
Sept (23 days)	<u>Unit-7: Liquid State</u> : Intermolecular forces, structure of liquids; liquid crystals; difference between liquid crystal, solid and liquid; Structure of nematic and cholesteric	
Oct (22 days)	<u>Solid State</u> : Laws of crystallography; X-ray diffraction by crystals, derivation of Bragg's equation.	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018


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MONTHWISE TEACHING PLAN 2018-19


(Odd Semester)


Name of the Staff: Dr. Jayana Jaban Class: B.Sc I Semester Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Biology of Non chordata Introduction to Nonchordates <u>Phylum Coelenterata</u> - General characters & classification, Morphology of hydra.	
July (26 days)	<u>Contd Ph: Coelenterata</u> - Life cycle of hydra <u>Phylum Arthropoda</u> - General characters & classification, Mouth parts of cockroach & mouth parts of mosquito. Prawn - Morphology & Cephalic appendages	
Aug (25 days)	<u>Contd Ph: Arthropoda</u> Prawn - Thoracic & abdominal appendages, Digestive & Nervous system. <u>Phylum Mollusca</u> - General characters & classification. <u>Unio</u> - Morphology.	
Sept (23 days)	<u>Contd Ph: Mollusca.</u> <u>Unio</u> - Digestive & nervous system. <u>Phylum: Echinodermata</u> General characters & classification with examples, Larval forms of echinodermata	
Oct (22 days)	Revision. Annual Practical examination.	

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018


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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Dr. Farzana Taben Class: B.Sc III Semester Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Poultry</u> : Aim & scope of poultry, poultry farm management - deep litter system & cage system, indigenous breeds of fowls.	
July (26 days)	<u>Contd Poultry</u> - Exotic breeds of fowls. Nutritional value of poultry meat & egg, rearing house equipments, poultry diseases - Ranikhet disease, fowl cholera, polyneuritis, coccidiosis.	
Aug (25 days)	<u>Pearl culture</u> : Microscopic structure of shell, process of pearl formation. <u>Vermiculture</u> : Concept & importance	
Sept (23 days)	<u>Contd vermiculture</u> : Large scale vermiculture, Small Scale vermiculture, role of earthworms in soil fertility.	
Oct (22 days)	Revision. Annual Practical examination.	

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018


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MONTHWISE TEACHING PLAN 2018-19
(Odd Semester)

Name of the Staff: Dr. Farzana Taben Class: B.Sc V Semester Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Introduction to evolution. Theories of organic evolution - Darwin - Wallace theory of natural selection.	
July (26 days)	contd Darwin-wallace theory. Synthetic theory of evolution. Lamarckism Neo Lamarckism	
Aug (25 days)	Speciation - Concept of Speciation, Allopatric & Sympatric Speciation Microevolution & Macroevolution	
Sept (23 days)	Palaeontology Fossils & fossilization. Origin & evolution of man.	
Oct (22 days)	Revision. Annual Practical examination	

- Note: 1. Opening Day : 01.06.2018
2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
4. Closing Day : 02.11.2018

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *A. N. Subbappa*; Class: *I III and V*

Sub: *ZOOLOGY*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	III Sem: aquaculture Introduction principle, scope, techniques & importance I Sem (S-I): Introduction; branches of Genetics, Applications & terminology chromosome.	
July (26 days)	III Sem: Economically important aquatic animals, History of Indian major crops & plants I Sem: - phylum: - Annelida. characters I Sem (S-I): Chromosomes. eg. size, morpho- logy, & types, structure & models. Hetero- & Euchromatin, Giant chromosomes: polytene & Campbell's chromosome.	
Aug (25 days)	III Sem: Fresh water plants, Induced breeding of major crops & seed production. I Sem: N. acids: Expts to prove Gen material chemistry, types, structure, DNA model. Replication of DNA, Forms.	
Sept (23 days)	I Sem: phylum: Annelida. ch'tls & classification III Sem: Endocrine regulators of fish reproduction. Note on fish products & diseases. I Sem: - Genetic code, Properties, Mechanism of protein synthesis. Sex linked inheritance: X & Y linked inheritance & Ex's. Mutations: Types, Syndromes, Human genetics & Eugenics.	
Oct (22 days)	Genetic Engineering: R-DNA Technology, Recombinant production, Applications in Medicine, Food & Agriculture, useful & Harmful effect of biotechnology, DNA finger print & DNA vaccines.	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

G. Prasad
 ACADEMIC COORDINATOR

G. Prasad
 Head of Department of Zoology
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Prabhavati*

Class: I, III and V

Sub: *ZOOLOGY*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)		
July (26 days)	I sem: Phylum platyhelminthes General charac- -ters & classification. II sem: - Sericulture - Brief history, concepts. Life cycle of B. mori. Moriculture. Grading of silkworms. III sem: - Interaction of genes, supplementary factors, dominant epistasis, recessive epistasis	
Aug (25 days)	I sem: Phylum Nematoda General characters with examples. II sem: - Sericulture: Post harvest technology, modern method of rearing house non-mulberry silkworms. V sem: - Complementary factors, multiple factors, lethal gene.	
Sept (23 days)	I sem: Parasitic adaptations of Helminths. III sem: - Silkworm diseases. Importance & scope of dairy farm animals, nutritional requirements housing & hygiene. Milk & milk products. IV: - Characteristics of multiple alleles, Inheritance of coat colour in rabbit & ABO blood groups in human, sex -factors, Isotaxels, Pseudalleles & position effect.	
Oct (22 days)	III sem: - Dairy farming: Processing, preserva- -tion & marketing, Breeding techniques artificial insemination. IV: - Linkage & crossing over, theories of linkage, linkage in <i>Drosophila</i> , linkage in man, mechanism of meiotic crossing over, types of crossing over, cytological detection of crossing over. Sex-determination.	

Note: 1. Opening Day

: 01.06.2018

2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)

3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)

4. Closing Day : 02.11.2018

G.P.
ACADEMIC COORDINATOR

G.P.
Head of Department of Zoology

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J.P.
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Dr. Chandrakala P. Class: B. Sc I Sem Sub: Zoology

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<u>Applied Zoology Non-Chordata</u> Introduction - Principles of animal classification - Five Kingdom classification Concept of species Animal nomenclature (Binomial and Trinomial)	
July (26 days)	Phylum:- Protozoa - General characters classification up to class with distinctive characters with Examples Structure of Plasmodium Vivax. Life history of Plasmodium Vivax.	
Aug (25 days)	Phylum Porifera:- General characters of Porifera and classification upto class with examples. Histology of spicules.	
Sept (23 days)	Canal system in Sponges - Different types of Canal system with examples.	
Oct (22 days)	Revision - Practicals - exams. Repetition -	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: *Dr. Chandrakala* Class: *III Sem*

Sub: *Zoology*

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	<i>Non-Chordata applied zoology Agriculture: Honeybee morphology. Castes: different types - Queen Drone, workers.</i>	
July (26 days)	<i>Types of different species and Races. Honey, wax, pollen, Venom and bee pollination.</i>	
Aug (25 days)	<i>Honey bee diseases Chemical composition of honey Economic importance of honey.</i>	
Sept (23 days)	<i>Management of bee-keeping - Modern-method Economic importance of honey</i>	
Oct (22 days)	<i>Revision - Practical - exams. Repetition</i>	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

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 ACADEMIC COORDINATOR

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 Head of Department of Zoology
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MONTHWISE TEACHING PLAN 2018-19

(Odd Semester)

Name of the Staff: Chandrakala Class: V Sem.

Sub: Zoology
Animal behaviour

Month (Working Days)	Syllabus to be covered	Remarks
June (17 days)	Social organization - Honeybee, Termites and Macraques. Parental care in fishes and amphibians	
July (26 days)	Migratory behaviour - In fishes with ref to Hilsa hilsa & Anguili. Migratory behaviour - Birds. Methods Types, Migration, Orientation	
Aug (25 days)	Innate behaviour - Kinesis, Taxes, Reflexes, Instincts and Motivation. Learned behaviour - Habituation, Imprinting, Reflex & Insight learning	
Sept (23 days)	Colouration - Types; Mimicry - Types with examples. Nesting behaviour in birds. Courtship behaviour - Biological Clock - Types of Rhythms, Chronobiology	
Oct (22 days)	Revision - Practical exams. Repetition	

- Note: 1. Opening Day : 01.06.2018
 2. Commencement of Classes: III & V Sem(11.06.2018) & I Sem(18.06.2018)
 3. Completion of Syllabus : III & V Sem(22.10.2018) & I Sem(31.10.2018)
 4. Closing Day : 02.11.2018

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 ACADEMIC COORDINATOR

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