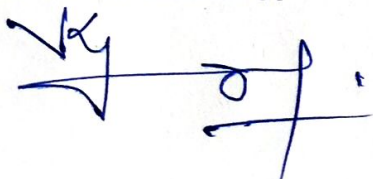


MONTHLY LESSON PLAN
B. SC. MEDICAL 1ST SEMESTER
SUBJECT: BOTANY, SESSION 2022-2023

CMG GCW BHOIA KHERA, FATEHABAD	
NAME OF THE ASSISTANT PROFESSOR	DR. VIKAS KUMAR JANGU
CLASS AND SECTION:	BSC I (MEDICAL) 1ST SEMESTER
SUBJECT:	BOTANY PAPER- I AND PAPER- II
NOMENCLATURE:	PAPER- I DIVERSITY OF MICROBES PAPER- II CELL BIOLOGY
MONTH	TOPICS
AUGUST 2022	ORIENTATION FOR NEW COMERS BACTERIA: STRUCTURE, NUTRITION, REPRODUCTION AND ECONOMIC IMPORTANCE: GENERAL ACCOUNT OF CYANOBACTERIA (WITH REFERENCE TO NOSTOC)
SEPTEMBER 2022	ALGAE: GENERAL CHARACTERS, CLASSIFICATION (UPTO CLASSES) AND ECONOMIC IMPORTANCE: IMPORTANT FEATURES AND LIFE-HISTORY (EXCLUDING DEVELOPMENT) OF VOLVOX, OEDOGONIUM (CHLOROPHYCEAE), VAUCHERIA (XANTHOPHYCEAE), ECTOCARPUS (PHAEOPHYCEAE) AND POLYSIPHONIA (RHODOPHYCEAE) VIRUSES: GENERAL ACCOUNT OF VIRUSES INCLUDING STRUCTURE OF TMV AND BACTERIOPHAGES. REVISION AND DOUBTS TEST: VIRUSES
OCTOBER 2022	FUNGI: GENERAL CHARACTERS, CLASSIFICATION (UPTO CLASSES) AND ECONOMIC IMPORTANCE; IMPORTANT FEATURES AND LIFE-HISTORY OF PHYTOPHTHORA (MASTIGOMYCOTINA), MUCOR (ZYGOMYCOTINA), PENICILLIUM (ASCOMYCOTINA), PUCCINIA, AGARICUS (BASIDIOMYCOTINA), COLLETOTRICHUM (EUTEROMYCOTINA); GENERAL ACCOUNT OF LICHENS. THE CELL ENVELOPES: STRUCTURE AND FUNCTIONS CELL WALL AND PLASMA MEMBRANE. ULTRASTRUCTURE AND FUNCTION OF NUCLEUS, GOLGI APPARATUS, ENDOPLASMIC RETICULUM, CHLOROPLAST, MITOCHONDRIA, LYSOSOMES, PEROXISOMES AND VACUOLES. TEST : FUNGI ASSIGNMENT DISCUSSION
NOVEMBER 2022	CELL DIVISION: MITOSIS AND MEIOSIS CHROMOSOME: MORPHOLOGY, ORGANISATION, ULTRASTRUCTURE OF CENTROMERE AND TELOMERE; CHROMOSOMAL ALTERATION-DELETIONS, DUPLICATIONS, TRANSLOCATIONS, INVERSIONS; VARIATIONS IN CHROMOSOME NUMBER-ANEUPLOIDY; POLYPLOIDY; SEX CHROMOSOMES AND SEX DETERMINATION. REVISION AND DOUBTS TEST: CELL DIVISION TEST : CHROMOSOME:
DECEMBER 2022	TEST: ASSIGNMENTS DISCUSSION: PAPER II REVISION AND DOUBTS OF PAPER- I: COMPLETE SYLLABUS SECTION A REVISION AND DOUBTS OF PAPER- II: COMPLETE SYLLABUS SECTION A REVISION AND DOUBTS: COMPLETE SYLLABUS REVISION AND DOUBTS: COMPLETE SYLLABUS REVISION WORK

DR. VIKAS KUMAR JANGU

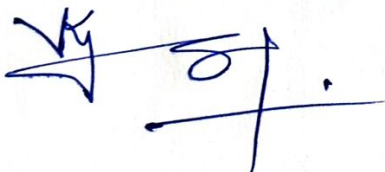


**MONTHLY LESSON PLAN
B.SC. MEDICAL 5TH SEMESTER
SUBJECT: BOTANY, SESSION 2022-2023**

CMG GCW BHOIA KHERA, FATEHABAD

NAME OF THE ASSISTANT PROFESSOR	DR. VIKAS KUMAR JANGU
CLASS AND SECTION:	BSC III (MEDICAL) 5TH SEMESTER
SUBJECT:	BOTANY PAPER- I AND PAPER- II
NOMENCLATURE:	PAPER- I : PLANT PHYSIOLOGY PAPER- II : ECOLOGY
MONTH	TOPICS
AUGUST 2022	PLANT-WATER RELATIONS ABSORPTION OF WATER TRANSLOCATION OF WATER TRANSPIRATION
SEPTEMBER 2022	MINERAL NUTRITION UPTAKE OF MINERAL NUTRITION TRANSLOCATION OF ORGANIC SUBSTANCES PHOTOSYNTHESIS-I (INTRODUCTION) PHOTOSYNTHESIS-II (LIGHT PHASE) PHOTOSYNTHESIS-III (DARK PHASE) RESPIRATION-I (INTRODUCTION) RESPIRATION- II (MECHANISM OF RESPIRATION) SEED GERMINATION AND DORMANCY REVISION AND DOUBTS ASSIGNMENT DISCUSSION: PAPER I
OCTOBER 2022	SENESCENCE AND FRUIT RIPENING PHYSIOLOGY OF FLOWERING PLANT MOVEMENTS AN INTRODUCTION OF ECOLOGY CLIMATIC FACTORS TOPOGRAPHIC FACTORS BIOTIC FACTORS ECOLOGICAL ADAPTATIONS POPULATION ECOLOGY REVISION AND DOUBTS TEST
NOVEMBER 2022	COMMUNITY ECOLOGY PLANT SUCCESSION ECOSYSTEM BIOGEOCHEMICAL CYCLES PHYTOGEOGRAPHY AIR POLLUTION WATER POLLUTION
DECEMBER 2022	TEST ASSIGNMENT DISCUSSION: PAPER II REVISION AND DOUBTS OF PAPER- I REVISION AND DOUBTS OF PAPER- II REVISION AND DOUBTS: COMPLETE SYLLABUS REVISION WORK

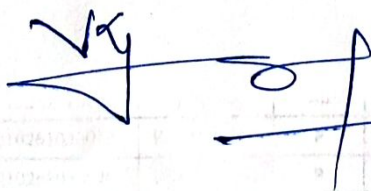
DR. VIKAS KUMAR JANGU



MONTHLY LESSON PLAN
B. SC. MEDICAL 3RD SEMESTER
SUBJECT: BOTANY, SESSION 2022-2023

CMG GCW BHOIA KHERA, FATEHABAD

NAME OF THE ASSISTANT PROFESSOR	DR. VIKAS KUMAR JANGU
CLASS AND SECTION:	BSC I (MEDICAL) 3RD SEMESTER
SUBJECT:	BOTANY PAPER- I AND PAPER- II
NOMENCLATURE:	PAPER- I : BIOLOGY AND DIVERSITY OF SEED PLANTS-I , PAPER- II : PLANT ANATOMY
MONTH	TOPICS
AUGUSR 2022	GENERAL CHARACTERS AND DIVERSITY OF GYMNOSPERMS (SEED PLANTS WITHOUT FRUITS) PILGER AND MELCHIOR'S (1954) SYSTEM OF CLASSIFICATION. GEOLOGICAL TIME TABLE ; EVOLUTION OF SEED HABIT. PALAEOBOTANY-FOSSILS AND FOSSILIZATION (PROCESSES INVOLVED, TYPE OF FOSSILS AND IMPORTANCE OF FOSSILS);
SEPTEMBER 2022	RECONSTRUCTION OF THE FOLLOWING FOSSIL PLANTS: LYGINOPTERIS WILLIAMSONIA CYCADEOIDEA (=BENNETTITES) MORPHOLOGY AND ANATOMY OF ROOT, STEM, LEAF/LEAFLET AND REPRODUCTIVE PARTS INCLUDING MODE OF REPRODUCTION, LIFE-CYCLE AND ECONOMIC IMPORTANCE OF THE FOLLOWING: CYCAS PINUS EPHEDRA REVISION AND DOUBTS TEST ASSIGNMENT DISCUSSION: PAPER I
OCTOMBER 2022	GENERAL CHARACTERS OF ANGIOSPERMS INCLUDING PRIMITIVE ANGIOSPERMS (AMENIFERAE, RANALES, MAGNOLIALES) DIVERSITY IN PLANTS FORMS-ANNUALS, BIENNIALS AND PERENNIALS. TISSUES-MERISTEMATIC AND PERMANENT (SIMPLE AND COMPLEX) THE SHOOT SYSTEM-SHOOT APICAL MERISTEM AND ITS HISTOLOGICAL ORGANIZATIONS (MONOCOT AND DICOT STEM) CAMBIUM-STRUCTURE AND FUNCTIONS. SECONDARY GROWTH IN DICOT STEM, CHARACTERISTICS OF GROWTH RINGS; SAP WOOD AND HEART WOOD, PERIDERM; ANAMALOUS SECONDARY GROWTH (DRACAENA, BOERHAAVIA AND ACHYRATHES)
NOVEMBER 2022	LEAF-TYPES OF LEAVES (SIMPLE AND COMPOUND) : PHYLLOTAXY. EPIDERMIS-UNISERIATE AND MULTISERIATE, EPIDERMAL APPENDAGES AND THEIR MORPHOLOGICAL TYPES. ANATOMY OF TYPICAL MONOCOT AND DICOT LEAF AND CELL INCLUSIOND IN LEAVES; LEAF ABSCISSION. STOMATAL APPARATUS AND THEIR MPRPHOLOGICAL TYPES. ROOT SYSTEM-THE ROOT APICAL MERISTEM; THEIR HISTOLOGICAL ORGANISATION (MONOCOT AND DICOT ROOT) SECONDARY GROTH IN ROOT. STRUCTRAL MODIFICATION IN ROOTS-STORAGE (BETA), RESPIRATORY (RHIZOPHORA), EPIPHYTIC (VANDA). REVISION AND DOUBTS, TEST , ASSIGNMENT DISCUSSION: PAPER I



DECEMBER 2022

TEST:

ASSIGNMENTS DISCUSSION: PAPER II

REVISION AND DOUBTS OF PAPER- I

REVISION AND DOUBTS OF PAPER- II

REVISION AND DOUBTS: COMPLETE SYLLABUS

REVISION AND DOUBTS: COMPLETE SYLLABUS

REVISION WORK

DR. VIKAS KUMAR JANGU

