

**LESSON PLAN FOR EVEN SEM**  
**SESSION 2017-18**

**NAME OF ASSISTANT /ASSOCIATE PROFESSOR : DR. SARITA BHANDARI**  
**CLASS/SECTION : BSC III (MED/B.T)**  
**SUBJECT :BOTANY**

UNIT I	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 1-1-18	ENZYMOLGY INTRODUCTION	GANONG'S POTOMETER
DAY2 DATE 2-1-18	DISCOVERY AND NOMENCLATURE OF ENZYMES	PAPER CHROMATOGRAPHY
DAY3 DATE 3-1-18	CONCEPT OF HOLOENZYMES & APO ENZYMES	GANONG'S POTOMETER
DAY7 DATE 8-1-18	REGULATION OF ENZYME ACTIVITY	ANAEROBIC RESPIRATION
DAY8 DATE 9-1-18	DEFINITION AND PHASES OF GROWTH	EVOLUTION OF HEAT IN RESPIRATION
DAY9 DATE 10-1-18	AUXINS – DISCOVERY AND BIOCHEMICAL NATURE	PAPER CHROMATOGRAPHY
DAY13 DATE 15-1-18	MECHANISM OF ACTION OF AUXINS & PHYSIOLOGICAL ROLE	DETERMINATION OF RQ
DAY 14 DATE 16-1-18	GIBBERELLINS- DISCOVERY AND BIOCHEMICAL NATURE	PEROXIDASE ACTIVITY
DAY15 DATE 17-1-18	MECHANISM OF ACTION OF GIBBERELLINS & PHYSIOLOGICAL ROLE	ANAEROBIC RESPIRATION
DAY19 DATE 22-1-18	HOLIDAY	
DAY20 DATE 23-1-18	SPORTS DAY	
DAY21 DATE 24-1-18	HOLIDAY	
	TOPIC	
	THEORY	PRACTICAL
DAY1 DATE 29-1-18	CYTOKININS - DISCOVERY AND BIOCHEMICAL NATURE	SPICES
DAY2 DATE 30-1-18	MECHANISM OF ACTION OF CYTOKININS & PHYSIOLOGICAL ROLE	GEOTROPISM
DAY3 DATE 31-1-18	HOLIDAY	
DAY7 DATE 5-2-18	LIPIDS STRUCTURE AND FUNCTION	PHOTOTROPISM
DAY8 DATE 6-2-18	FATTY ACIDS BIOSYNTHESIS	MEDICINAL PLANTS

DAY9 DATE 7-2-18	<b>ALPHA OXIDATION</b>	<b>EVOLUTION OF HEAT IN RESPIRATION</b>
DAY13 DATE 12-2-18	<b>BETA OXIDATION</b>	<b>DETECTION OF CARBOHYDRATE</b>
DAY14 DATE 13-2-18	<b>HOLIDAY</b>	
DAY15 DATE 14-2-18	<b>SATURATED AND UNSATURATED FATTY ACIDS</b>	<b>DETERMINATION OF RQ</b>
DAY19 DATE 19-2-18	<b>STORAGE AND MOBILIZATION OF FATTY ACIDS</b>	<b>DETECTION OF PROTEINS</b>
DAY20 UNIT - 2 DATE 20-2-18	<b>NITROGEN CYCLE AND ITS IMPORTANCE</b>	<b>BEVERAGES</b>
DAY21 DATE 21-2-18	<b>NITROGEN FIXATION</b>	<b>PEROXIDASE ACTIVITY</b>
DAY2 DATE 26-2-18	<b>MECHANISM OF NITROGEN FIXATION</b>	<b>DETECTION OF FATS</b>
DAY3 DATE 27-2-18	<b>IMPORTANCE OF NITRATE REDUCASE</b>	<b>DETERMINATION OF PH</b>
DAY4 DATE 28-2-18	<b>HOLIDAY</b>	
DAY5 DATE 1-3-18	<b>HOLIDAY</b>	
DAY6 DATE 2-3-18	<b>HOLIDAY</b>	
DAY7 DATE 3-3-18	<b>HOLIDAY</b>	
DAY8 DATE 5-3-18	<b>AMMONIUM ASSIMILATION</b>	<b>DETERMINATION OF ABUNDANCE BY QUADRATE METHOD</b>
DAY9 DATE 6-3-18	<b>PROTEIN SYNTHESIS</b>	<b>DETERMINATION OF FREQUENCY BY QUADRATE METHOD</b>
DAY10 DATE 7-3-18	<b>INTRODUCTION TO BIOTECHNOLOGY</b>	<b>GEOTROPISM</b>
DAY 14 DATE 12-3-18	<b>TOOLS OF RECOMBINANT DNA TECHNOLOGY- 1</b>	<b>DETERMINATION OF DENSITY BY QUADRATE METHOD</b>
DAY15 DATE 13-3-18	<b>TOOLS OF RECOMBINANT DNA TECHNOLOGY- 2</b>	<b>HYDROPHYTES</b>
DAY16 DATE 14-3-18	<b>TECHNIQUES OF RECOMBINANT DNA TECHNOLOGY- 1</b>	<b>PHOTOTROPISM</b>
DAY20 DATE 19-3-18	<b>TECHNIQUES OF RECOMBINANT DNA TECHNOLOGY- 2</b>	<b>HYDROPHYTES SLIDES</b>

DAY21 DATE 20-3-18	<b>TECHNIQUES OF RECOMBINANT DNA TECHNOLOGY- 3</b>	<b>XEROPHYTES</b>
DAY22 DATE 21-3-18	<b>CONDITIONAL TEST</b>	<b>EVOLUTION OF HEAT IN RESPIRATION</b>
DAY1 DATE 26-3-18	<b>CLONING VECTORS</b>	<b>XEROPHYTES SLIDES</b>
DAY2 DATE 27-3-18	<b>GENOME LIBRARY</b>	<b>HALOPHYTES AND SLIDES</b>
DAY3 DATE 28-3-18	<b>C DNA LIBRARY</b>	<b>DETECTION OF CARBOHYDRATE</b>
DAY7 DATE 2-4-18	<b>TRANSPOSABLE ELEMENTS</b>	<b>PARASITES AND SLIDES</b>
DAY8 DATE 3-4-18	<b>PLANT TISSUE CULTURE INTRODUCTION</b>	<b>PREPARATION OF PDA</b>
DAY9 DATE 4-4-18	<b>ASPECTS OF PTC</b>	<b>DETECTION OF PROTEINS</b>
DAY13 DATE 9-4-18	<b>CELLULAR TOTIPOTENCY</b>	<b>PETRI DISH PLATING</b>
DAY14 DATE 10-4-18	<b>METHODS OF PTC</b>	<b>SLANT PREPARATION</b>
DAY15 DATE 11-4-18	<b>ANTHER CULTURE &amp;PROTOPLAST CULTURE</b>	<b>DETECTION OF FATS</b>
DAY19 DATE 16-4-18	<b>DIFFERENTIATION AND MORPHOGENESIS</b>	<b>ANTHER CULTURE &amp;PROTOPLAST CULTURE</b>
DAY20 DATE 17-4-18	<b>ROLE OF AGROBACTERIUM</b>	<b>AUTOCLAVING</b>

**NAME OF ASSISTANT /ASSOCIATE PROFESSOR: DR. SARITA**

**CLASS/SECTION**

**: BSC I (MED/B.T)**

**SUBJECT**

**: BOTANY**

<b>UNIT/PART I</b>	<b>TOPIC</b>	
	<b>THEORY</b>	<b>PRACTICAL</b>
DAY4 DATE 4-1-18	<b>INTRODUCTION TO GENETICS</b>	<b>MARCHANTIA M ,F SLIDES</b>
DAY5 DATE 5-1-18	<b>DNA GENETIC MATERIAL</b>	
DAY6 DATE 6-1-18	<b>DNA STRUCTURE</b>	
DAY10 DATE 11-1-18	<b>DNA PROTEIN INTERACTION</b>	<b>ANTHOCEROS M/F SLIDES</b>
DAY11 DATE 12-1-18	<b>GENETIC CODE PART- 1</b>	
DAY12 DATE 13-1-18	<b>GENETIC CODE -2</b>	
DAY16 DATE 18-1-18	<b>SATELLITE AND REPITITIVE DNA</b>	<b>FUNARIA M/F SLIDES</b>
DAY17 DATE 19-1-18	<b>MENDELISM</b>	

DAY18 DATE 20-1-18	<b>LAW OF SEGGREGATION &amp; INDEPENDENT ASSORTMENT</b>	
DAY22 DATE 25-1-18	<b>LINKAGE ANALYSIS</b>	<b>SELAGINELLA M/F SLIDES</b>
DAY23 DATE 26-1-18	<b>HOLIDAY</b>	
DAY 24 DATE 27-1-18	<b>LINKAGE MAP</b>	
DAY4 DATE 1-2-18	<b>INCOMPLETE DOMINANCE, NUMERICALS</b>	<b>EQUISETUM M/F SLIDES</b>
DAY5 DATE 2-2-18	<b>CO DOMINANCE, NUMERICALS</b>	
DAY6 DATE 3-2-18	<b>POLYGENIC INHERITANCE, NUMERICALS</b>	
DAY10 DATE 8-2-18	<b>LETHAL GENES , NUMERICALS</b>	<b>PTERIS M/F SLIDES</b>
DAY11 DATE 9-2-18	<b>ASSIGNMENT 1 PLEIOTROPIC GENES</b>	
DAY12 DATE 10-2-18	<b>HOLIDAY</b>	
DAY16 DATE 15-2-18	<b>POLYMERIC GENES</b>	<b>PTERIS SECTION CUTTING</b>
DAY17 DATE 16-2-18	<b>QUANTATIVE GENES</b>	
DAY18 DATE 17-2-18	<b>COMPLEMENTARY AND SUPPLEMENTARY GENES</b>	
DAY22 DATE 22-2-18	<b>EPISTASIS &amp; ITS TYPES</b>	<b>GENETIC NUMERICAL</b>
DAY23 UNIT 2 DATE 23-2-18	<b>MUTATIONS AND ITS TYPES</b>	
DAY1 DATE 24-2-18	<b>CHARACTERS OF MUTATIONS</b>	
DAY5 DATE 1-3-18	<b>HOLIDAY</b>	
DAY6 DATE 2-3-18	<b>HOLIDAY</b>	
DAY7 DATE 3-3-18	<b>HOLIDAY</b>	
DAY11 DATE 8-3-18	<b>PHYSICAL AND CHEMICAL MUTAGENS</b>	<b>CHI SQUARE ANALYSIS</b>
DAY12 DATE 9-3-18	<b>DNA DAMAGE AND DNA REPAIR</b>	
DAY13 DATE 10-3-18	<b>ASSIGNMENT 2 TRANSPOSABLE ELEMENTS</b>	
DAY17 DATE 15-3-18	<b>MODREN CONCEPT OF GENES</b>	<b>CHI SQUARE ANALYSIS</b>
DAY18 DATE 16-3-18	<b>RNA, &amp; ITS TYPES</b>	
DAY19	<b>TRANSCRIPTION,&amp; TRANSLATION</b>	

DATE 17-3-18		
DAY23 DATE 22-3-18	<b>CONDITIONAL TEST</b>	<b>CHI SQUARE ANALYSIS</b>
DAY 24 DATE 23-3-18	<b>HOLIDAY</b>	
DAY 25 DATE 24-3-18	<b>REGULATION OF GENE EXPRESSION</b>	
DAY4 DATE 29-3-18	<b>HOLIDAY</b>	
DAY5 DATE 30-3-18	<b>GENE EXPRESSION IN PROCARYOTES</b>	
DAY6 DATE 31-3-18	<b>GENE EXPRESSION IN EUCARYOTES</b>	
DAY10 DATE 5-4-18	<b>OPERON</b>	<b>CHI SQUARE ANALYSIS</b>
DAY11 DATE 6-4-18	<b>STRUCTURE OF PROTEIN</b>	
DAY12 DATE 7-4-18	<b>EXTRA NUCLEAR INHERITANCE</b>	<b>MITOSIS</b>
DAY16 DATE 12-4-18	<b>MITOCHONDRIAL INHERITANCE</b>	
DAY17 DATE 13-4-18	<b>PLASTID INHERITANCE</b>	
DAY18 DATE 14-4-18	<b>HOLIDAY</b>	
DAY22 DATE 19-4-18	<b>PLASMIDS</b>	<b>MITOSIS</b>
DAY23 DATE 20-4-18	<b>REVISION</b>	

**NAME OF ASSISTANT /ASSOCIATE PROFESSOR : DR. SARITA**  
**CLASS/SECTION : BSC II(MED/B.T)**  
**SUBJECT : BOTANY**

UNIT/PART I	TOPIC	
	THEORY	PRACTICAL
DAY5 DATE 5-1-18		<b>ROOT TYPE- TAP ROOT</b>
DAY6 DATE 6-1-18		<b>ROOT TYPE- ADV ROOT</b>
DAY11 DATE 12-1-18		<b>FLOWER-CITRUS, MURRAYA</b>
DAY12 DATE 13-1-18		<b>FLOWER- CORINDRUM, ANETHUM</b>
DAY17 DATE 19-1-18		<b>FLOWER- TRITICUM, AVENA</b>
DAY18 DATE 20-1-18		<b>FLOWER-AGERATUM, HELIANTHUS</b>
DAY23 DATE 26-1-18	<b>HOLIDAY</b>	

DAY 24 DATE 27-1-18		<b>FLOWER- RANUNCULUS, DELPHINIUM</b>
DAY5 DATE 2-2-18		<b>FLOWER- BRASSICA , RAPHANUS</b>
DAY6 DATE 3-2-18		<b>MODIFICATION OF LEAF AND STEM</b>
DAY11 DATE 9-2-18	<b>ASSIGNMENT 1</b>	<b>DISSECT EMBRYO</b>
DAY12 DATE 10-2-18	<b>HOLIDAY</b>	
DAY17 DATE 16-2-18		<b>INFLOROCENCE</b>
DAY18 DATE 17-2-18		<b>FRUIT TYPE</b>
DAY23 DATE 23-2-18		<b>MONOCOT STEM,LEAF</b>
DAY1 DATE 24-2-18		<b>DICOT STEM,LEAF</b>
DAY6 DATE 2-3-18	<b>HOLIDAY</b>	
DAY7 DATE 3-3-18	<b>HOLIDAY</b>	
DAY12 DATE 9-3-18		<b>ANATOMY OF ANGIOSPERMIC ROOT</b>
DAY13 DATE 10-3-18	<b>ASSIGNMENT 2</b>	<b>SEED TYPE</b>
DAY18 DATE 16-3-18		<b>PERMANENT SLIDES</b>
DAY19 DATE 17-3-18		<b>FLOWER- EUPHORBIA</b>
DAY 24 DATE 23-3-18	<b>HOLIDAY</b>	
DAY 25 DATE 24-3-18		<b>CYCAS PERMANENT SLIDES</b>
DAY5 DATE 30-3-18		<b>PINUS PERMANENT SLIDES</b>
DAY6 DATE 31-3-18		<b>EPHEDRA PERMANENT SLIDES</b>
DAY11 DATE 6-4-18		<b>FOSSIL SLIDES</b>
DAY12 DATE 7-4-18		<b>SECTION CUTTING</b>
DAY17 DATE 13-4-18		<b>SECTION CUTTING AND STAINING</b>
DAY23 DATE 20-4-18		<b>SECTION CUTTING AND STAINING</b>