

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) :1st Sem

Name of the Paper:- Introduction To Biotechnology

Class: BSc.Ist

Name of the Teachers (Section Wise) : Ms.Anjushree

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Definition and scope of Biotechnology
		Definition and scope of Biotechnology
		Definition and scope of Biotechnology
SUNDAY - 13.08.2023		
3	August (14-19)	Definition and scope of Biotechnology
		Biotechnology research in India
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Biotechnology in context of Developing world
		Biotechnology in context of Developing world
		Safety guidelines
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Safety guidelines
		Ethics in Biotechnology
		Ethics in Biotechnology
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Intellectual Property rights
		Intellectual Property rights
		Fermentation Technology
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Fermentation Technology
		Fermentation Technology
		Fermentation Technology
SUNDAY - 17.09.2023		
8	September (18-22)	Animal tissue Culture
		Animal tissue Culture
		Animal tissue Culture

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Plant tissue Culture
		Plant tissue Culture
		Plant tissue Culture
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Immunotechnology:Immune System (Brief)
		Immunotechnology:Immune System (Brief)
		IVF &Embryo transfer technology
SUNDAY - 08.10.2023		
11	October (9-14)	Monoclonal antibodies
		Introduction of Genetic Engineering
		Introduction to gene& genomes
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Proteins and proteome
		DNA Fingerprinting and Forensic Analysis
		Genetic manipulations
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Enymes concept :Immobilized enzymes
		Enymes concept :Immobilized enzymes
		Bioremediation
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Bioremediation
		Bioremediation
		Application of biotechnology
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Application of biotechnology
		Application of biotechnology
		Assignments
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
		Revision
		Test
25.11.2023 - Examinations		

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) : 1st

Name of the Paper:- LABORATORY TECHNIQUES AND PRACTICES

Class: BSc 1st

Name of the Teachers (Section Wise) : KIRTI

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	LAB RULES AND SAFETY MEASURES
SUNDAY - 13.08.2023		
3	August (14-19)	COMMONLY USED EQUIPMENTS FOR BIOTECHNOLOGICAL WORK
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	QUALITATIVE AND QUANTITATIVE ESTIMATION OF VARIOUS BIOMOLECULES
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	PREPARATION OF BUFFER, NORMAL , MOLAR , %SOL BUFFER SOL AND PH
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	CHROMATOGRAPHY ELECTROPHORESIS
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	STERILISATION TECHNIQUE FOLLOWED IN LAB DRY AND WET TYPE , PREFERRED METHOD
SUNDAY - 17.09.2023		
8	September (18-22)	EVALUATION OF DIFFERENT DISINFECTANTS AND ANTISEPTICS AND THEIR USAGE

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	BIOLOGICAL INDICATORS
		TEST
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	MICRO ORGANISMS , PREP OF COTTON PLUGS
SUNDAY - 08.10.2023		
11	October (9-14)	TYPES OF CULTURE MEDIA
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	PREPARATIONS OF DILUTIONS AND ISOLATION OF
		MICRO ORGANISMS FROM AIR, WATER AND SOIL
SUNDAY - 22.10.2023		
13	October (23, 25-27)	PICKING OFF TECHNIQUE
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	ASSIGNMENT
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	STREAKING METHOD
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	POUR PLATE METHOD
SUNDAY - 19.11.2023		
17	November (20-24)	SPREAD PLATE METHOD
		REVISION
25.11.2023 - Examinations		

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) 1st

Name of the Paper:- Diversity of microbes,algae,funghi and archegoniates

Class:B.Sc 1st

Name of the Teachers (Section Wise) : Ms.Rajni

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Bacteria structure and Reproduction
		Bacteria structure and Reproduction
		Introduction to algae
SUNDAY - 13.08.2023		
3	August (14-19)	<i>Volvox</i> structure and Reproduction
		<i>Vaucheria</i> structure and Reproduction
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	<i>Ectocarpus</i> structure and Reproduction
		<i>Polysiphonia</i> structure and Reproduction
		Introduction to virus
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Introduction to fungi
		Introduction to fungi
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	<i>Phytophthora</i> structure and Reproduction
		<i>Penicillium</i> structure and Reproduction
		<i>Colletotrichum</i> structure and reproduction
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	<i>Puccinia</i> structure and Reproduction
		<i>Puccinia</i> structure and Reproduction
		Assignment and test
SUNDAY - 17.09.2023		
8	September (18-22)	Lichens Structure And Reproduction
		Discussion on General characters of Bryophyta
		Bryophyta- Classification (upto classes)

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	<i>Marchantia</i> - structure and reproduction
		<i>Anthoceros</i> - structure and reproduction
		<i>Funaria</i> -structure and reproduction
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Pteridophyta- General characters.
		<i>Rhynia</i> - alternation of generations, structure and reproduction.
SUNDAY - 08.10.2023		
11	October (9-14)	<i>Selaginella</i> - structure and reproduction, alternation of generations
		<i>Selaginella</i> - structure and reproduction, alternation of generations
		<i>Equisetum</i> - structure and reproduction, alternation of generations
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	<i>Pteris</i> -structure and reproduction, alternation of generations
		Gymnosperms- General characters.
		Gymnosperms- Classification
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Structure and reproduction of <i>cycas</i>
		Structure and reproduction of <i>pinus</i>
		Structure and reproduction of <i>Ephedra</i>
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Paleobotany
		Paleobotany
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Geological time scale
		Geological time scale
		Geological time scale
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Economic importance of Gymnosperms
		Economic importance of Gymnosperms
		REVISION
25.11.2023 - Examinations		

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SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG - 1st Semester (Zoology)

Name of the Paper:- Animal Diversity of Non-chordates

Class: B.Sc. Ist

Name of the Teachers (Section Wise) : Sneha

WEEK	DATE	TOPICS
1	August (5)	Protozoa: General Characters and Classification
SUNDAY - 06.08.2023		
2	August (7-12)	Protozoa: Type Study of Plasmodium
		Protozoa: Type Study of Plasmodium
		Porifera: General Characters and classification
SUNDAY - 13.08.2023		
3	August (14-19)	Porifera: Type Study- <i>Sycon</i>
		Porifera: Type Study- <i>Sycon</i>
		Porifera: Type Study- <i>Sycon</i>
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Coelentrata: General Characters and classification
		Coelentrata:Type Study of <i>Obelia</i>
		Coelentrata:Type Study of <i>Obelia</i>
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Platyhelminthes: General Characters
		Platyhelminthes: Classification
		Platyhelminthes: Type study of liver fluke
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Platyhelminthes: Type study of liver fluke
		Platyhelminthes: Type study of liver fluke
		Platyhelminthes: Type study of liver fluke
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Aschelminthes: General Characters classification
		Annelida: General Characters and classification
		Earthworm - Type study
SUNDAY - 17.09.2023		
8	September (18-22)	Earthworm - Type study
		Earthworm - Type study

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Arthropoda: General Characters
		Arthropoda: Classification
		Arthropoda : Type Study of cockroach
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Arthropoda : Type Study of cockroach
		Arthropoda : Type Study of cockroach
		Arthropoda : Type Study of cockroach
SUNDAY - 08.10.2023		
11	October (9-14)	Mollusca: General Characters
		Mollusca: Classification
		Mollusca: Type Study <i>Pila</i>
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Mollusca: Type Study <i>Pila</i>
		Mollusca: Type Study <i>Pila</i>
		Mollusca: Type Study <i>Pila</i>
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Echinodermata: General characters and Classification
		Echinodermata: Type Study of star fish
		Echinodermata: Type Study of star fish
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Echinodermata: Type Study of star fish
		Echinodermata: Type Study of star fish
		Hemichordata: General Characters
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Examples of Hemichordata
		type study <i>Balanoglossus</i>
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Revision
		Revision
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
		Revision
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester)

Name of the Paper:- Calculus

Class: B.Sc. I

Name of the Teachers (Section Wise) : Dr. Arpana Garg

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Limits
		Continuity
		Differentiation
SUNDAY - 13.08.2023		
3	August (14-19)	Indeterminate form
		Indeterminate Form ($0 * \infty, \infty - \infty$)
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Indeterminate form ($1^\infty, \infty^0, 0^0$ etc)
		Problems of Indeterminate form
		Successive Differentiation in cartesian form
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Successive Differentiation in cartesian form
		Parametric Form
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Standard results of Successive Differentiation
		Questions
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Questions using Partial Fraction
		More examples of Successive Differentiation
		Leibnitz's Theorem
SUNDAY - 17.09.2023		
8	September (18-22)	Questions Based on Leibnitz's Theorem
		Taylor's Theorem
		Questions Based on Taylor's Theorem

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Question Based on Maclaurin's Theorem
		Another Form of Taylor's Series
		Asymptotes
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Oblique Asymptotes
		Asymptotes of polar curves
		Curvature
SUNDAY - 08.10.2023		
11	October (9-14)	curvature in cartesian form
		Curvature
		curvature in intrinsic forms
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Singular Points
		Singular Points
		Tracing of curves
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Tracing of curves
		Tracing of curves
		Reduction Formula
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Reduction Formula
		Reduction Formula
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Rectification
		Rectification
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Quadrature
		Area bounded by closed curve
		volume and Surface of solid of revolution
25.11.2023 - Examinations		

I.B. (PG) COLLEGE, PANIPAT**LESSON PLAN****SESSION 2023-24 (05.08.2023 to 24.11.2023)****Weekly Lesson Plan (Odd Semester)****UG (1st / III / V - Semester)****Name of the Paper:- Basic IT Tools****Class: B.Sc I (minor)****Name of the Teachers (Section Wise) : Luxmi**

WEEK	DATE	TOPICS
1	August	
SUNDAY - 06.08.2023		
2	August (7-12)	
SUNDAY - 13.08.2023		
3	August (14-19)	
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Introduction to Computer: Computer and Latest IT gadgets, evolution of computer & its Application
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Basics of Hardware and Software, Application Software, system software, utility software, central processing unit, I/O Devices
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Computer Memory & storage, Mobile Apps, operating system, function of operating system, operating system for laptop and desktop
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop, Taskbar, Icon Shortcut, Running an application, operating system simple setting
SUNDAY - 17.09.2023		
8	September (18-22)	Changing System Date and Time, Changing Display Properties, To Add or Remove Program and Features, Adding removing and sharing printers, file and folder management

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Introduction to Internet and World Wide Web, Basic of Computer Networks, Local area network (LAN) and Wide area network (WAN)
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Network Topology, Internet, Applications of Internet, Website Address and URL (Assignment-I)
SUNDAY - 08.10.2023		
11	October (9-14)	Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.). Popular Search Engines, Searching on the Internet. Conditional
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and sending a new Mail, replying Messaging, Forward an Email messaging
SUNDAY - 22.10.2023		
13	October (23, 25-27)	
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY - 29.10.2023		
14	October (30-31) November (2-4)	searching emails, Attaching files with email, Email Signature. Social Networking: Facebook, Twitter, LinkedIn, Instagram, Instant Messaging (WhatsApp, Facebook, Messenger, Telegram), Introduction to Blog and Digital Locker
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Assignment-II
SUNDAY - 19.11.2023		
17	November (20-24)	Revised
25.11.2023 - Examinations		

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LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) I

Name of the Paper:- Basic IT Tools

Class: BSC I

Name of the Teachers (Section Wise) : Deepty Juneja

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Introduction to Computer: Computer and Latest IT gadgets
		Evolution of Computers & its applications
		Lab
		Lab
SUNDAY - 13.08.2023		
3	August (14-19)	Basics of Hardware and Software, Application Software
		Lab
		Lab
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Systems Software, Utility Software. Central Processing Unit, Input devices, Output devices
		Computer Memory & storage, Mobile Apps
		Lab
		Lab
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Introduction to Operating System, Functions of the Operating system, Operating Systems for Desktop and Laptop
		Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop
		Lab
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Task Bar, Icons & shortcuts, Running an Application, Operating System Simple Setting
		Changing System Date and Time, Changing Display Properties, To Add or Remove Program and Features
		Lab
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Adding, Removing & Sharing Printers, File and Folder Management.
		Assignment 1
		Lab
		Lab
SUNDAY - 17.09.2023		
8	September (18-22)	Introduction to Internet and World Wide Web, Basic of Computer Networks
		Local Area Network (LAN), Wide Area Network (WAN)
		Lab
		Lab

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Network Topology
		Internet, Applications of Internet, Website Address and URL
		Lab
		Lab
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.). Popular Search Engines, Searching on the Internet.
		Lab
		Lab
SUNDAY - 08.10.2023		
11	October (9-14)	Conditional
		E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox
		Lab
		Lab
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Assignment 2
		Creating and Sending a new E-mail, replying to an E-mail message, forwarding an E-mail message
		Lab
		Lab
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Searching emails, Attaching files with email, Email Signature
		Lab
		Lab
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	ge, searching emails, Attaching files with email, Email Signature. Social Networking: Facebook, Twitter, LinkedIn, Instagram
		Instant Messaging (WhatsApp, Facebook Messenger, Telegram), Introduction to Blogs, Digital Locker
		Lab
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Revision
		Revision
		Lab
		Lab
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
		Revision
		Revision
		Revision
25.11.2023 - Examinations		

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Weekly Lesson Plan (Odd Semester)

UG (Ist Semester)

Name of the Paper:- Chemistry -I Class:

B.Sc. Ist Year

Name of the Teachers (Section Wise) : Dr. Vikram Kumar

WEEK	DATE	TOPICS
1	August (5)	Hawan Ceremony
SUNDAY - 06.08.2023		
2	August (7-12)	Atomic Structure Dual behaviour of matter and radiation, de Broglie's relation, Heisenberg's uncertainty principle, concept of atomic orbitals, significance of quantum numbers, radial and angular wave functions
SUNDAY - 13.08.2023		
3	August (14-19)	normal and orthogonal wave functions, significance of Ψ and Ψ^2 , shapes of s, p, d, f orbitals, Rules for filling electrons in various orbitals, effective nuclear charge, Slater's rules.
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Periodic table and atomic properties Classification of periodic table, definition of atomic and ionic radii, ionisation energy, electron affinity and electronegativity, trend in periodic table (in s and p-block elements),
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	Pauling, Mulliken, Allred Rachow and Mulliken Jaffe's electronegativity scale, Sanderson's electron density ratio.
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Gaseous State Kinetic theory of gases, Maxwell's distribution of velocities and energies (derivation excluded) Calculation of root mean square velocity, average velocity, and most probable velocity.
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Collision diameter, collision number, collision frequency and mean free path (Derivations excluded), Deviation of Real gases from ideal behaviour,
SUNDAY - 17.09.2023		
8	September (18-22)	Derivation of Van der Waal's Equation of State, its application in the calculation of Boyle's temperature (compression factor)

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Critical Phenomenon Concept of Critical temperature, critical pressure, critical volume, relationship between critical constants and Van der Waal' s constants (Derivation excluded)
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Structure and Bonding Localized and delocalized chemical bond, Van der Waals interactions, resonance conditions, resonance effect and its applications, hyperconjugation, inductive effect, Electromeric effect and their comparison.
SUNDAY - 08.10.2023		
11	October (9-14)	Mechanism of Organic Reactions Curved arrow notation, drawing electron movements with arrows, half-headed and double-headed arrows, homolytic and heterolytic bond breaking. Types of reagents: electrophiles and nucleophiles.
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Types of organic reactions: Substitution, Addition, Elimination, Rearrangement etc. Reactive intermediates: Carbocations, carbanions
SUNDAY - 22.10.2023		
13	October (23, 25-27)	free radicals, carbenes (structure & stability). Classification of solids, Law of constancy of interfacial angles, law of rational indices, Miller indices,
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	elementary ideas of symmetry and symmetry elements, seven crystal systems and fourteen Bravais lattices;
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	X-ray diffraction, Bragg's law, a simple account of Laue method, rotating crystal method and powder pattern method.
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	REVISION
SUNDAY - 19.11.2023		
17	November (20-24)	REVISION
25.11.2023 - Examinations		

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (Ist Semester)

Name of the Paper:- Minor Chemistry -I Class:

B.Sc. Ist Year

Name of the Teachers (Section Wise) : Prof. Era garg

WEEK	DATE	TOPICS
1	August (5)	Hawan Ceremony
SUNDAY - 06.08.2023		
2	August (7-12)	Covalent Bond Valence bond theory approach, shapes of simple inorganic molecules and ions based on valence shell electron pair repulsion (VSEPR) theory
SUNDAY - 13.08.2023		
3	August (14-19)	hybridization with suitable examples of linear, trigonal planar, square planar, tetrahedral, trigonal bipyramidal and octahedral arrangements.
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Molecular orbital theory of homonuclear (N ₂ , O ₂) and heteronuclear (CO and NO) diatomic molecules,
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	dipole moment and percentage ionic character in covalent bond.
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Chemical Kinetics Concept of reaction rates, rate equation,
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	factors influencing the rate of reaction,
SUNDAY - 17.09.2023		
8	September (18-22)	Order and molecularity of a reaction, integrated rate expression for zero order reaction

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	expression for first order reactions, Half-life period of a reaction.
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	second order reactions (for equal conc. of reactants), Half-life period of a reaction.
SUNDAY - 08.10.2023		
11	October (9-14)	Alkanes (upto 5 carbon atoms) Alkanes, nomenclature, classification of carbon atoms in alkanes. Isomerism in alkanes, sources
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	methods of formation: Wurtz reaction, Kolbe reaction, Corey-House reaction and decarboxylation of carboxylic acids,
SUNDAY - 22.10.2023		
13	October (23, 25-27)	physical properties. Mechanism of free radical halogenation of alkanes: reactivity and selectivity.
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	Metallic Bond and semiconductors Metallic bond – Qualitative idea of valence bond and Band theories of metallic bond (conductors, semiconductors, insulators).
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Semiconductors – Introduction, types, and applications.
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	REVISION
SUNDAY - 19.11.2023		
17	November (20-24)	REVISION
25.11.2023 - Examinations		

**I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN**

SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st / III / V - Semester) I

Name of the Paper:- Programming in C

Class: Bsc I

Name of the Teachers (Section Wise) : Deepty Juneja

WEEK	DATE	TOPICS
1	August (5)	
SUNDAY - 06.08.2023		
2	August (7-12)	Overview of C: History, Importance
		Structure of C Program, Character Set,
		Constants and Variables
SUNDAY - 13.08.2023		
3	August (14-19)	Identifiers and Keywords, Data Types
		Assignment Statement, Symbolic Constant.
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	Input/output: Formatted I/O Function-, Input Functions viz. scanf(), getch(), getche(), getchar(), gets().
		Input/output: Formatted I/O Function-, Input Functions viz. scanf(), getch(), getche(), getchar(), gets().
		output functions viz. printf(), putchar(), puts().
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	output functions viz. printf(), putchar(), puts().
		Operators Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators
		Expression
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	Group Discussion
		Assignment I
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	Operator Hierarchy, Evaluation of Arithmetic Expression,
		HTML Document Features;HTML Tags; Header, Title, Body, Paragraph,
		Type Casting and Conversion
SUNDAY - 17.09.2023		
8	September (18-22)	Decision making with if statement, if- else statement
		nested if statement, else-if ladder,
		switch and break statement, goto statement

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	Looping Statements: for, while, and do- while loop
		Programming of loops, jumps in loops.
		Arrays: One Dimensional arrays Declaration, Initialization
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	Memory representation; Two Dimensional arrays Declaration, Initialization and Memory representation
		Functions: definition, prototype
SUNDAY - 08.10.2023		
11	October (9-14)	passing arguments to a function: call by value; call by reference
		recursive functions
		Strings: Declaration and Initialization, String I/O, Array of Strings
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	Conditional Test
		String Manipulation Functions: String Length, Copy, Compare, Concatenate etc., Search for a Substring.
		Concatenate etc., Search for a Substring.
SUNDAY - 22.10.2023		
13	October (23, 25-27)	Pointers in C: Declaring and initializing pointers
		accessing address and value of variables using pointers; Pointers and Arrays
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	User defined data types: Structures Definition, Advantages of - Structure
		declaring structure variables, accessing structure members
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	Structure members initialization, Array of Structures
		Unions - Union definition
		difference between Structure and Union
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	
SUNDAY - 19.11.2023		
17	November (20-24)	Revision
		Revision
		Revision
25.11.2023 - Examinations		

I.B. (PG) COLLEGE, PANIPAT
LESSON PLAN
SESSION 2023-24 (05.08.2023 to 24.11.2023)

Weekly Lesson Plan (Odd Semester)

UG (1st Semester)

Name of the Paper:- Mechanics

Class: BSc I Physical Sciences

Name of the Teachers (Section Wise) : Dr. Chetna Narula (Single Section)

WEEK	DATE	TOPICS
1	August (5)	Introduction to Mechanics, Translational motion, Basics of Rotational Motion and Examples
SUNDAY - 06.08.2023		
2	August (7-12)	
		Comparison in translation and Rotational motion and their relevant parameters, Rigid body, Moment of Inertia
		Radius of Gyration, Theorems of perpendicular and parallel axis (with proof)
SUNDAY - 13.08.2023		
3	August (14-19)	
		MOI of Solid cylinder, Solid sphere, Hollow sphere,
		MOI of Rectangular plate, Square plate, Solid cone, Triangular plate
HOLIDAY - 15.08.2023 - INDEPENDENCE DAY		
SUNDAY - 20.08.2023		
4	August (21-26)	
		Torque, Rotational Kinetic Energy, Angular momentum, Law of conservation of angular momentum
		Rolling motion, condition for pure rolling, acceleration of body rolling down an inclined plane
SUNDAY - 27.08.2023		
5	August (28-29, 31) September (1-2)	
		Unit-II Elasticity, Intoduction, Need of the study, Deforming Force
		Elastic limit, stress, strain and their types, Hooke's law
HOLIDAY - 30.08.2023 - RAKSHABANDHAN		
SUNDAY - 03.09.2023		
6	September (4-5, 7-9)	
		Elongation produced in heavy rod due to its own weight and elastic potential energy stored in it,
		Tension in rotating rod, Poisson's ratio and its limiting value, Elastic Constants and their relations
HOLIDAY - 06.09.2023 - JANAMASHTMI		
SUNDAY - 10.09.2023		
7	September (11-16)	
		Bending of beam, bending moment and its magnitude, Flexural rigidity,
		Geometrical moment of inertia for beam of rectangular cross-section and circular cross-section,
SUNDAY - 17.09.2023		
8	September (18-22)	
		Dispersion of a centrally loaded beam supported at its ends, determination of elastic constants for material of wire by Searle's method.
		Revision Test- Unit 1 and 2

HOLIDAY 23.09.2023 - SHAHEEDI DIVAS/HARYANA WAR HEROES' MARTYRDOM DAY		
SUNDAY - 24.09.2023		
9	September (25-30)	
		Unit-III Special Theory of Relativity- Introduction
		Michelson's Morley experiment and its outcomes
Postulates of special theory of relativity, Lorentz Transformations		
SUNDAY - 01.10.2023		
HOLIDAY - 02.10.2023 MAHATMA GANDHI JAYANTI		
10	October (3-7)	
		Simultaneity and order of events, Lorentz contraction
		Time dilation, Relativistic transformation of velocity
Relativistic addition of velocities, variation of mass-energy equivalence		
SUNDAY - 08.10.2023		
11	October (9-14)	
		Relativistic Doppler effect, relativistic kinematics
		Transformation of energy and momentum
Transformation of force		
SUNDAY - 15.10.2023 & HOLIDAY (MAHARAJA AGRASEN JAYANTI)		
12	October (16-21)	
		Problems of relativistic dynamics
		Doubts and Revision Test
Unit-IV Gravitation and Central force Motion-Introduction		
SUNDAY - 22.10.2023		
13	October (23, 25-27)	
		Law of gravitation, Potential and field due to spherical shell and solid sphere
		Motion of a particle under central force field, Two body problem
HOLIDAY - 24.10.2023 DUSSEHRA		
HOLIDAY 28.10.2023 - MAHARISHI VALMIKI JAYANTI		
SUNDAY -29.10.2023		
14	October (30-31) November (2-4)	
		Two body problem continued and its reduction to one body problem and its solution
		Compound pendulum or physical pendulum in form of elliptical lamina and expression of time period
Determination of g by means of bar pendulum		
HOLIDAY 01.11.2023 - HARYANA DAY		
15	November (6-9)	
		Normal coordinates and normal modes
Diwali Break - 10.11.2023 to 16.11.2023		
16	November (17-18)	Normal modes of vibration for given spring mass system
		Possible angular frequencies of oscillation of two identical simple pendulums of length (l)
SUNDAY - 19.11.2023		
17	November (20-24)	
		Possible angular frequencies of oscillation of small bob of mass (m_0) joined together with spring of spring constant (k).
		Doubts and Revision of Unit-IV
25.11.2023 - Examinations		