Lesson Plan

Name of the Faculty : Er.Amit Kumar

Discipline : Mechanical Engg.

Year/Semester : 1st Year (Annual System)

Subject : **Applied Mechanics**

Lesson Plan duration: 37 weeks

Work load per week : Lecture -02, Practical -02

		Theory	Practical		
Week	Lecture	Topic (Including assessment/test)		Торіс	
1 st	1 st	Introduction: Concept of engineering mechanics definition of mechanics	1 st	Introduction about the Lab and brief discussion over the	
134	2 nd	Statics, dynamics.		practical work to be conducted	
2 nd	3 rd	Different systems of units (FPS, CGS, MKS and SI) and their conversion from one to another.	2 nd po	Verification of the polygon law of forces using Gravesand's	
	4 th	Simple Numerical Problems, Fundamental Units and Derived Units		apparatus.	
	5 th	Concept of rigid body, scalar and vector quantities	$3^{ m rd}$	Verification of the polygon law of forces	
3 rd	6 th	Laws of forces: Definition of force, Bow's Notations, types of force	3	usingGravesand's apparatus.	
4 th	7 th	Point force/concentrated force & Uniformly distributed force, effects of force, characteristics of a force	4 th	Checking of Practical File	
	8 th	Different force systems			
	9 th	Principle of transmissibility of forces	4	To verify the forces in	
5 th	10 th	Law of super-position	5 th	different members of jib crane.	
6 th	11 th	Composition and resolution of coplanar concurrent forces, resultant	6 th	To verify the forces in	

		Force Method of composition of forces		different members of jib crane.
	12 th	Laws of forces, triangle law of forces		Jac annae.
7 th	13 th	Polygon law of forces - graphically, analytically, resolution of forces	$7^{ m th}$	Checking of Practical File
	14^{th}	Free body diagram		
	15 th	Equilibrant force and its Determination	8 th	To verify the reaction at the supports of a
8 th	16 th	Lami's theorem	8	simply supported beam.
	17 th	Simple problems on above topics		To verify the reaction
9 th	18 th	st 1 Internal Assessment Exam	9 th	at the supports of a simply supported beam.
	19 th	Assessment		Checking of Practical
10 th	20 th	Moment : Concept of moment	10 th	File
	21 th	Moment of a force and units ofmoment		To find the mechanical advantage, velocity
11 th	22 th	Varignon's theorem (definition only)	11 th	ratio and efficiency in case of an inclined plane.
	23 th	Principle of moment and its Applications		To find the mechanical advantage, velocity
12 th	24 th	Levers – simple and compound,	12 th	ratio and efficiency in case of an inclined plane.
- 41-	25 th	Steel yard, safety valve, reaction at support)		Checking of Practical File
13 th	26 th	Parallel forces (like and unlike parallel force) calculating their resultant	13 th	
	27 th	Concept of couple, its properties		1 st Internal
14 th	28 th	Effects of Couple	14 th	Assessment Exam (Tentative)
15 th	29 ^h	General conditions of equilibrium of	15 th	To find the mechanical

		bodies under coplanar forces		advantage, velocity
	30 th	Position of resultant force by moment		ratio and efficiency of a screw jack.
	31 th	Simple problems on the above topics		To find the mechanical
16 th	32 th	Friction : Definition and concept of friction, types of friction	16 th	advantage, velocity ratio and efficiency of a screw jack.
	33 th	Force of friction, Limiting Friction		Checking of Practical
17 th	34 th	Laws of static friction	17 th	File
	35 th	Coefficient of friction angle of friction, angle of repose		To find the mechanical
18 th	36 th	Equilibrium of a body lying on a horizontal plane	18 th	advantage, velocity ratio and efficiency of worm and worm wheel
	37 th	Equilibrium of a body lying on a rough inclined plane Ladder friction		To find the mechanical
19 th	38 th	Advantages and Disadvantages of Friction Methods of increasing/decreasing the force of friction.	19 th	advantage, velocity ratio and efficiency of worm and worm wheel
	39 th	Problems		Checking of Practical
20 th	40 th	2nd Internal Assessment Exam	20 th	File
	41 st	Centre of Gravity: Concept		To find mechanical
21 st	42 nd		21 st	advantage, velocity ratio and efficiency of single purchase crab.
		Definition of Centroid of plain figures		
aand	43 rd	Centre of gravity of Symmetrical solid bodies	d	To find mechanical advantage, velocity
22 nd	44 th	Difference between Centroid and C.G	22 nd	ratio and efficiency of single purchase crab.
23 rd	45 th	Determination of Centroid of plain and composite lamina using moment method only	23 rd	Checking of Practical

	46 th	Centroid of bodies with removed Portion		File	
24 th	47 th	Determination of center of gravity of solid bodies – Cylinder	24 th	To find out center of gravity of regular lamina.	
24	48 th	Determination of center of gravity of solid bodies - Cube,	24		
25 th	49 th	Determination of center of gravity of solid bodies Cuboid	25 th	To find out center of gravity of regular	
23	50 th	Determination of center of gravity of solid bodies Sphere	23	lamina.	
- 41-	51 st	Determination of center of gravity of composite bodies	- 4h	Checking of Practical File	
26 th	52 nd	Determination of center of gravity of solid bodies with portion removed	26 th		
	53 rd	Problems of above topic		2 nd Internal	
27 th	54 th	Simple Machines: Definition of Simple and compound machine (Examples)	27 th	Assessment Exam (Tentative)	
28 th	55 th	Definition of load, effort, velocity ratio, mechanical advantage	28 th	To find out center of gravity of irregular lamina	
20	56 th	Efficiency of a machine and their relationship, law of machines	20		
• oth	57 th	Definition of ideal machine, reversible and self locking machine	• oth	Checking of Practical File	
29 th	58 th	Effort lost in friction, Load lost in friction.	29 th		
30 th	59 th	Determination of maximum mechanical advantage and maximum efficiency	30 th	To find out center of gravity of irregular lamina	
	60 th	System of pulleys (first, second, third system of pulleys)			
21st	61 st	Determination of velocity ratio, mechanical advantage and efficiency	2.1st	Checking of Practical File	
31 st	62 nd	Working principle and application of wheel and axle	31 st		
	63 ^{ra}	Weston's Differential Pulley Block		To determine	
32 nd	64 th	Simple screw jack	32 nd	coefficient of friction between three pairs of given surface	

	65 th	Worm and worm wheel		Checking of Practical
33 rd	66 th	Single and double winch crab.	33 rd	File
	67 th	Expression for their velocity ratio and field of their application of above m/c		To determine coefficient of friction
34 th	68 th	Numerical Problems of MA and Efficiency	34 th	between three pairs of given surface
	69 ^{tn}	Numerical problems of effort lost		Checking of Practical
35 th	70 th	Numerical problems of load lost.	35 th	File
36 th	71 st	Numerical problems of pulley 1 st and 2 nd systems to calculated V.R ,M.A and efficiency	36 th	Internal Viva
30	72 nd	Numerical problems of 3 system pulley systems to calculated V.R ,M.A and efficiency	30	
4	73 rd	Revision		Internal Viva
37 th	74 th	Revision	37 th	

Lesson Plan

Name of the Faculty: Er.Shalander Mor

Discipline : Mechanical Engineering

Year/Semester : 1st Year-(Annual System) Subject

: ENGINEERING GRAPHICS

Lesson Plan duration: 37 weeks

Work load per week : Lecture -00, Practical -03

		Practical
Week	Practical Day	Торіс
		Unit:-1 Introduction to Engineering Drawing Definition of Engineering Drawing, Introduction to drawing instruments, materials, layout and sizes of drawing sheets and drawing boards, engineering graph book, different grades of pencils to be used.
1 st	1 st	Different types of lines in engineering drawing as per BIS specifications
		Practice of vertical, horizontal and inclined lines
		Principles of dimensioning: Types, elements, placing, different methods of dimensioning
2 nd	2 nd	1.5 Practice of geometrical figures such as –triangles, rectangles, circles, ellipses and parabola, hexagonal, pentagon with the help of drawing instruments.
3rd	3 rd	Definition and classification of lettering, single stroke vertical and inclined lettering at 750 (alphabet and numerals)
314		Freehand letter writing and sketches of various kind of objects in graph Sketch book/graph paper.
4 th	4 th	Unit:- 2 Graphics using CAD Meaning, requirement of computer graphics, CAD, screen structure and toolbars in AutoCAD, coordinate system, Drawing Limits, Units. Practice of LINE command, coordinates-Absolute, incremental, polar. POLYLINE, CIRCLE(3P,2P, TTR), ARC, ELLIPSE
5 th	5 th	Using above geometrical commands for making figure e.g. triangle, rectangle, hexagon, pentagon, parabola. 2.4 Editing commands-Scale, erase, copy, stretch, lengthen and explode
6 th	6 th	Use of SNAP, GRID and ORTHO mode for selection of points quickly. Use of these modes while picking points in LINE, CIRCLE, PLINE, ARC, ELLIPSE etc commands.

7 th	7 th	Unit:-3 Scales 3.1 Scales-their needs and importance (theoretical instructions), types of scales, definition of Representative Fraction(R.F.) and length of scale.
8 th	8 th	3.2 Construction of Plain and diagonal scale.
9 th	9 th	1st Internal Assessment Exam (Tentative)
10 th	10 th	Unit:-4 Orthographic Projection Theory of orthographic projections (Elaborate theoretical instructions) Projections of points in different quadrants Projection of line (1st angle and 3rd angle) 4.3.1 Line parallel to both planes
11 th	11 th	44.3.2 Line perpendicular to any one of the principal plane 4.3.3 Line inclined to any one of the principal plane and parallel to other.
12 th	12 th	Projection of Solid-Cube, Cuboid, Cone, Prism, pyramid Three views of orthographic projections of different objects (At least one sheet in 3rd angle)
13 th	13 th	4.6 Making above sheets in AutoCAD of:- point line solids and two objects
14 th	14 th	Unit:- 5 Sectioning and Identification of surfaces 5. 1 Identifications of surfaces, Importance and salient features of sectioning of objects
15 th	15 th	5. 2 Description of full section, half section partial or broken out sections, Offset Sections, revolved sections and removed sections
16 th	16 th	Unit:- 6 Isometric Views 6.1 Fundamental of isometric projections and isometric scale
17 th	17 th	6.2 Isometric views of different objects
18 th	18 th	6.3 AutoCAD for the isometric views sheets. Making single computer sheet showing all the three views and an isometric (in single split screen view) of any object showing understanding of use of AutoCAD in making isometric views – at least 1 sheet
19 th	19 th	Unit:- 7 Common Symbols and conventions used in Engineering 7.1 Civil Engineering sanitary fitting symbols
20 th	20 th	2nd Internal Assessment Exam (Tentative)
		Winter Vacations 25.12.2018 to 08.01.2019
21 st	21 st	7.2 Electrical fitting symbols for domestic interior installations 7.3 Safety symbols used in engineering works
22 nd	22 nd	Unit:-8 Development of surfaces (cylinder, cuboid, cone) 8.1 Parallel line, radial line method
23 rd	23 rd	Unit:-9 Detailed and assembly drawing 9.1 Principle and utility of detailed and assembly drawings
24 th	24 th	9.2 Wooden joints i.e. corner mortise and tenon joint, Tee Halving joint, Mitre faced corner joint, Tee bridle joint, crossed wooden joint,

		cogged joint, dovetail joint, through Mortise and tenon joint, furniture drawing – freehand and with the help of drawing instruments
25 th	25 th	9.3 Making Wooden Joint sheets in AutoCAD, rendering & showing
		assembly animation at least 1 sheet
26 th	26 th	Unit:- 10 Screw threads and threaded fastener 10.1 Thread Terms and Nomenclature
27 th	27 th	10.1.1 Type of threads-external and internal threads, right and left hand threads (actual conventional representation), Single and multiple start thread.
28 th	28 th	10.1.2 Different forms of screw threads –V threads (B.S.W. threads, B.A thread, American National and Metric thread), Square threads (Square, Acme, buttress and Knuckle thread)
29 th	29 th	10.2. Nuts and Bolts 10.2.1 Different views of hexagonal and square nuts. Square and hexagonal headed bolt.
30 th	30 th	10. 2. 2 Assembly of Hexagonal ended bolt and Hexagonal nut with washer.10. 2. 3 Assembly of square headed bolt with hexagonal and with washer.
31 st	31 st	10. 3. Locking Devices 10. 3. 1 Different types of locking devices-Lock nut, castle nut, split pin nut, locking plate, slotted nut and spring washer.
32 nd	32 nd	10. 3. 2 Foundations bolts-Rag bolt, Lewis bolt, Curved bolt and eye bolt.10. 3. 3 Drawing of various types of studs
33 rd	33 rd	Unit:- 11 Keys and Cotters 11. 1 Various types of keys and cotters-weir practical application, drawings of various keys and cotters showing keys and cotters in position
34 th	34 th	11. 2 Various types of Joints -Spigot and Socket Joints -Gib and cotter joint -Knuckle joint
35 th	35 th	Unit:- 12 Couplings Introduction to coupling, their use and types Muff coupling
36 th	36 th	Flange coupling (protected) Flexible Coupling
37 th	37 th	REVISION

Govt. Polytechnic Nanakpur, Panchkula

Name of the faculty: Dharamvir Saini

Discipline: Mechanical Engg.

Year: Ist

Subject: Internet of Things and Artificial Intelligence

Lesson Plan Duration: 35 Weeks

Workload (Practical) per week (In Hours) Practical-02

Week	Practical Day/Hours	Practical
1st	1st	Introduction to Internet of Things (IoT)
	2nd	Applications (IoT)
2nd	3rd	architecture
	4th	protocols
3rd	5th	Understand the concepts of Internet of Things
	6th	Build small IoT applications
4th	7th	Understand and analyzing sensor
	8th	generated data using analytic techniques in Excel
5th	9 _{th}	Wireless sensors and actuators
	10 th	Data aggregation systems and analog-to-digital data conversion
6th	11 th	data center or cloud
Om	12 th	Characteristics of IoT
7th	13 th	Physical Design of IOT
7 tii	14 th	Logical Design of IoT
8th	15 th	Functional blocks of IoT,
Q	16 th	Communication Models.
9th	17 th	Basics of C language
	18 th	using Arduino IDE
10 th	19 th	Understating basics of Arduino IDE
	20 th	Variables
11 th	21 st	data type
	22th	loops,
12 th	23 rd	control statement
	24 th	function
13 th	25 th	Practical using Arduino-interfacing sensors
	26 th	Interfacing Light Emitting Diode(LED)
14 th	27 th	Blinking LED
	28 th	Interfacing Button and LED
15 th	29 th	LED blinking when button is pressed
	30th	Interfacing Light Dependent Resistor (LDR)
16 th	31 st	LED, displaying automatic night lamp
	32st	Interfacing Temperature Sensor(LM35
17 th	33 rd	Use of sensor
	34	Revise the previous practicals
18 th	35	Details of humidity sensor
	36	or humidity sensor (e.g. DHT11)

19 th 37 Interfacing Liquid Crystal Display(LCD) 38 Revise the previous practicals 20th 39 display data generated by sensor on LCD 40 Interfacing Air Quality Sensor-pollution (e.g. MQ135) 21st 41 display data on LCD, 42 Revise the previous practicals 22st 43 switch on LED when data sensed is higher than specified value. 44 Interfacing Bluetooth module (e.g. HC05) 23rd 45 Revise the practicals 46 receiving data from mobile phone
20th 39 display data generated by sensor on LCD 40 Interfacing Air Quality Sensor-pollution (e.g. MQ135) 21st 41 display data on LCD, 42 Revise the previous practicals 22st 43 switch on LED when data sensed is higher than specified value. 44 Interfacing Bluetooth module (e.g. HC05) 23rd 45 Revise the practicals
40 Interfacing Air Quality Sensor-pollution (e.g. MQ135) 21st 41 display data on LCD, 42 Revise the previous practicals 22st 43 switch on LED when data sensed is higher than specified value. 44 Interfacing Bluetooth module (e.g. HC05) 23rd 45 Revise the practicals
21st 41 display data on LCD, 42 Revise the previous practicals 22st 43 switch on LED when data sensed is higher than specified value. 44 Interfacing Bluetooth module (e.g. HC05) 23rd 45 Revise the practicals
 42 Revise the previous practicals 22st 43 switch on LED when data sensed is higher than specified value. 44 Interfacing Bluetooth module (e.g. HC05 23rd 45 Revise the practicals
22st 43 switch on LED when data sensed is higher than specified value. 44 Interfacing Bluetooth module (e.g. HC05 23rd 45 Revise the practicals
44 Interfacing Bluetooth module (e.g. HC05 23rd 45 Revise the practicals
23rd 45 Revise the practicals
46 receiving data from mobile phone
24 th 47 on Arduino and display on LCD
Revise the practicals
25 th 49 Interfacing Relay module to demonstrate Bluetooth
based home automation application. (using Bluetooth and relay).
26 th 51 Revise the practicals
52 Introduction to Artificial Intelligence (AI)
27 th 53 Machine Learning (ML),
54 Deep Learning (DL).
28 th 55 Role of AI in IoT
56 its applications
29 th 57 Managing
58 Analyzing data generated by IoT devices
30 th 59 The Original Robotic Industry – Manufacturing
60 Increased intelligence
31 st 61 Big Data
62 Machine Learning Tasks
32st 63 Machine Learning Applications
64 History and relationship to other fields
33st 65 e.g. classification
66 Revision of the Practicals
34 th 67 linear regression, etc.
Numerical based on above techniques
35st 69 Revision of the practicals
70 Understanding excel for analyzing data

<u>Lesson</u> <u>Plan</u>

Name : Charanjeet Singh

Discipline : Mechanical Engg.

Semester : 1st Year

Subject : Information Technology Lab

Lesson plan duration: 30 Weeks

Total Load : 2 practical per Week

	PRACTICAL			
WEEK	PRACTICAL DAY	TOPIC		
Ist	1	Given a PC, name its various components and peripherals. List their functions		
2nd	2	Given a PC, name its various components and peripherals. List their functions		
3rd	3	Installing various components of computer system and installing system software and application software		
4 th	4	Installation of I/O devices, printers and installation of operating system viz. Windows/BOSS/LINUX		
5 th	5	Installation of I/O devices, printers and installation of operating system viz. Windows/BOSS/LINUX		
6 th	6	 Eeatures of Windows as an operating system Start Shut down and restore Creating and operating on the icons Opening, closing and sizing the windows and working with windows interfacing Ements (option buttons, checkbox, scroll etc.) Using elementary job commands like – creating, saving, modifying, renaming, Inding and deleting a file and folders Changing settings like, date, time, colour (back ground and fore ground etc.) 		

		- Heire short site
		Using short cuts Heing on line help
7.1	7	2 Using on line help
7 th	7	Features of Windows as an operating system Start
		Shut down and restore
		2 Creating and operating on the icons
		② Opening, closing and sizing the windows and working with
		windows interfacing
		elements (option buttons, checkbox, scroll etc.)
		Using elementary job commands like – creating, saving,
		modifying, renaming,
		finding and deleting a file and folders
		2 Changing settings like, date, time, colour (back ground and fore
		ground etc.)
		② Using short cuts
		Using on line help
8th	8	Word Processing (MS Office/Open Office)
0	O	a) File Management:
		 Opening, creating and saving a document, locating files, copying
		contents in some
		different file(s), protecting files, giving password protection for a file
		b) Page set up:
		Setting margins, tab setting, ruler, indenting
		c) Editing a document:
		② Entering text, cut, copy, paste using tool- bars
		d) Formatting a document:
		2 Using different fonts, changing font size and colour, changing the
		appearance
		through bold/italic/underlined, highlighting a text, changing case,
		using subscript
		and superscript, using different underline methods
		Aligning of text in a document, justification of document, inserting
		bullets and
		numbering
		Pormatting paragraph, inserting page breaks and column breaks, line
		spacing
		2 Use of headers, footers: Inserting footnote, end note, use of
		comments, autotext
		Inserting date, time, special symbols, importing graphic images,
	0	drawing tools
9 _{th}	9	Word Processing (MS Office/Open Office)
J		a) File Management:
		Opening, creating and saving a document, locating files, copying contents in some
		contents in some different file(s), protecting files, giving password protection for a file
		b) Page set up:
		2 Setting margins, tab setting, ruler, indenting
		c) Editing a document:
		Entering a document.Entering text, cut, copy, paste using tool- bars
		d) Formatting a document:
		Using different fonts, changing font size and colour, changing the
		appearance
		through bold/italic/underlined, highlighting a text, changing case,

		using subscript and superscript, using different underline methods Aligning of text in a document, justification of document, inserting bullets and
		numbering Programmer Formatting paragraph, inserting page breaks and column breaks, line
		spacing Use of headers, footers: Inserting footnote, end note, use of comments, autotext
		Inserting date, time, special symbols, importing graphic images, drawing tools
10 th	10	Tables and Borders: © Creating a table, formatting cells, use of different border styles, shading in tables,
		merging of cells, partition of cells, inserting and deleting a row in a table
		Print preview, zoom, page set up, printing optionsUsing find, replace options
		f) Using Tools like: Spell checker, help, use of macros, mail merge, thesaurus word
		content and statistics, printing envelops and lables Using shapes and drawing toolbar,
		Vorking with more than one window
11 th	11	Tables and Borders: © Creating a table, formatting cells, use of different border styles,
		shading in tables, merging of cells, partition of cells, inserting and deleting a row in a table
		Print preview, zoom, page set up, printing optionsUsing find, replace options
		f) Using Tools like: Spell checker, help, use of macros, mail merge, thesaurus word
		content and statistics, printing envelops and lables
		② Using shapes and drawing toolbar, ② Working with more than one window
12 th	12	Spread Sheet Processing (MS Office/Open Office)
		a) Starting excel, open worksheet, enter, edit, data, formulae to calculate values, format
		data, save worksheet, switching between different spread sheets b) Menu commands:
		Create, format charts, organise, manage data, solving problem by analyzing data.
		Programming with Excel Work Sheet, getting information while working
		c) Work books:
		Managing workbooks (create, open, close, save), working in work books, selecting
		the cells, choosing commands, data entry techniques, formula creation and links,
		controlling calculations Editing a worksheet, copying, moving cells, pasting, inserting, deletion

ı		
		cells, rows, columns, find and replace text, numbers of cells, formatting worksheet, conditional formatting
13 th	13	a) Starting excel, open worksheet, enter, edit, data, formulae to calculate values, format
		data, save worksheet, switching between different spread sheets b) Menu commands:
		Create, format charts, organise, manage data, solving problem by analyzing data.
		Programming with Excel Work Sheet, getting information while working
		c) Work books: Managing workbooks (create, open, close, save), working in work
		books, selecting the cells, choosing commands, data entry techniques, formula creation
		and links, controlling calculations
		Editing a worksheet, copying, moving cells, pasting, inserting, deletion cells, rows,
		columns, find and replace text, numbers of cells, formatting worksheet, conditional
		formatting
14 th	14	Creating a chart: Working with chart types, changing data in chart, formatting a chart, use chart to
		analyze data Using a list to organize data, sorting and filtering data in list
		e) Retrieve data with query: Create a pivot table, customizing a pivot table. Statistical analysis of data
		f) Exchange data with other application:
		Embedding objects, linking to other applications, import, export document.
15th	15	Creating a chart: Working with chart types, changing data in chart, formatting a chart, use chart to
		analyze data Using a list to organize data, sorting and filtering data in list
		e) Retrieve data with query: Create a pivot table, customizing a pivot table. Statistical analysis of
		data f) Exchange data with other application:
		Embedding objects, linking to other applications, import, export document.
16th	16	Creating a chart: Working with chart types, changing data in chart, formatting a chart, use chart to
		analyze data
		Using a list to organize data, sorting and filtering data in list e) Retrieve data with query:
		Create a pivot table, customizing a pivot table. Statistical analysis of data

		f) Exchange data with other application: Embedding objects, linking to other applications, import, export document.
17th	17	PowerPoint Presentation (MS Office/Open Office) a) Introduction to PowerPoint - How to start PowerPoint - Working environment: concept of toolbars, slide layout & templates Opening a new/existing presentation - Different views for viewing slides in a presentation: normal, slide sorter. b) Addition, deletion and saving of slides c) Insertion of multimedia elements - Adding text boxes - Adding/importing pictures - Adding movies and sound - Adding tables and charts etc Adding organizational chart - Editing objects - Working with Clip Art
18th	18	PowerPoint Presentation (MS Office/Open Office) a) Introduction to PowerPoint - How to start PowerPoint - Working environment: concept of toolbars, slide layout & templates Opening a new/existing presentation - Different views for viewing slides in a presentation: normal, slide sorter. b) Addition, deletion and saving of slides c) Insertion of multimedia elements - Adding text boxes - Adding/importing pictures - Adding movies and sound - Adding tables and charts etc Adding organizational chart - Editing objects - Working with Clip Art
19th	19	d) Formatting slides - Using slide master - Text formatting - Changing slide layout - Changing slide colour scheme - Changing background - Applying design template
20th	20	d) Formatting slides - Using slide master - Text formatting - Changing slide layout - Changing slide colour scheme - Changing background - Applying design template
21st	21	How to view the slide show? - Viewing the presentation using slide navigator - Slide transition - Animation effects, timing, order etc.

		Use of Pack and Go Options.
22nd	22	How to view the slide show?
		- Viewing the presentation using slide navigator
		- Slide transition
		- Animation effects, timing, order etc.
		Use of Pack and Go Options.
23rd	23	Internet and its Applications
24th	24	Establishing an internet connection.
		Browsing and down loading of information from internet.
25th	25	Establishing an internet connection.
		Browsing and down loading of information from internet.
26 th	26	Sending and receiving e-mail
		- Creating a message
		- Creating an address book
		- Attaching a file with e-mail message
		- Receiving a message
05.1	2=	- Deleting a message
27th	27	Sending and receiving e-mail
		- Creating a message
		- Creating an address book
		- Attaching a file with e-mail message
		Receiving a messageDeleting a message
28th	28	Assigning IP Addresses to computers and use of domain names.
29th	29	Functioning of Antivirus
29111	29	a) Installation and updation of an antivirus.
		b) How to scan and remove the virus.
30th	30	Functioning of Antivirus
50011	30	a) Installation and updation of an antivirus.
		b) How to scan and remove the virus.